



BIO-UPTAKE

Bio-Uptake Processes and Prospects for Sustainable Composites

Advances and Lessons Learned in Injection Moulding, Thermoforming, Digitalisation and Environmental Performance of Bio-Based Composites

By: Bio-Uptake Consortium

09/02/2026



Agenda for today's Webinar

09 : 00-09 : 15 - Welcome and Introduction - Dr Anne Beaucamp Mc Loughlin (University of Limerick)

09:15-10:00 - INJECTION MOULDING - Dr Julio Vidal (MOSES) and Dr Alejandro Marquez (AITIIP)

10:00-10:45 - THERMOPLASTICS THERMOFORMING - Ruben Geenrick (CENTEXBEL) and Hans Knudsen (COMFIL)

11:00-11:35 - THERMOSETS THERMOFORMING - Dr Aratz Genua (CIDETEC)

11:35-12:00 - DIGITALISATION - Marcos Marandeira (AIMEN)

12:00-12:45 - SUSTAINABILITY - Dr Isabel Lopez (University of Aveiro) and Dr Anne Beaucamp (University of Limerick)

12:45-13:00 - Conclusion and final remarks - Dr Anne Beaucamp Mc Loughlin (University of Limerick)



Bio-UPTAKE: Problem, solution and objective

OBJECTIVE



The general objective of Bio-Uptake is to ensure a sustainable uptake of **bioplastic composites** through boosting a twin green and digital transformation in the European manufacturing industry.

PROBLEM



Petroleum derivatives cannot be directly replaced with newly developed biobased materials due to differences in their physical and thermochemical properties.

SOLUTION



The Bio-Uptake solution is based on the smart combination of **intermediate formats** (filaments, tapes and pellets). Developing flexible **manufacturing processes** to produce biobased end-products for the construction, medical and packaging sectors.

Raw material

Intermediate product

Final product

End of life

Feet insoles

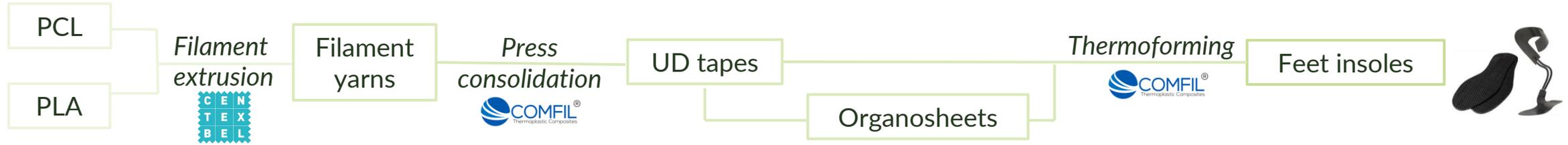


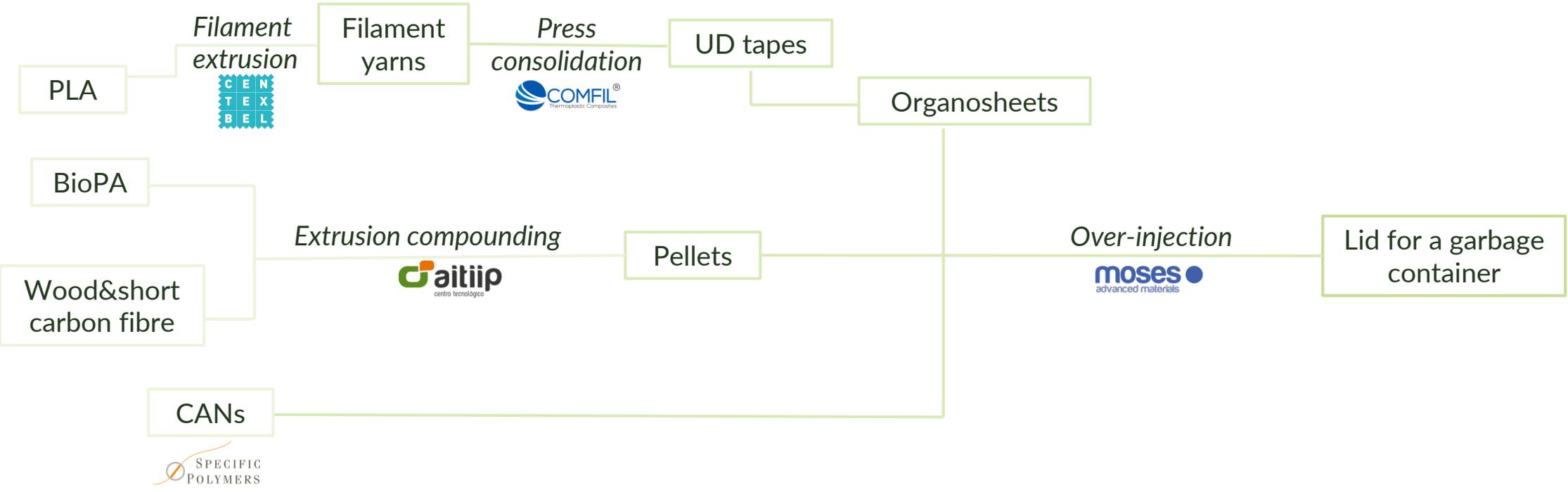
Lid for a garbage container

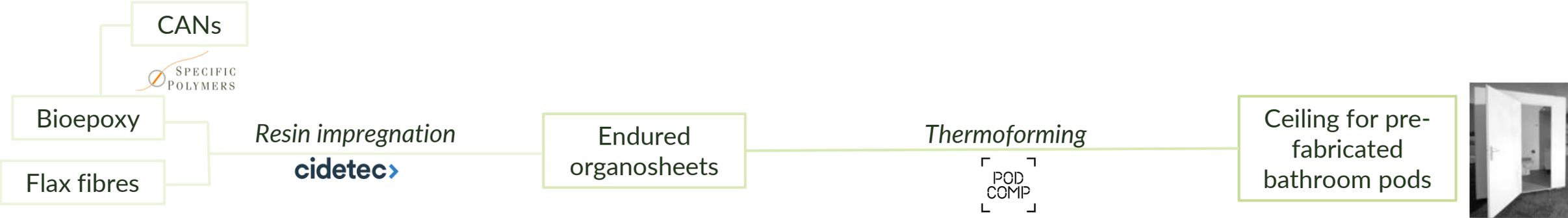
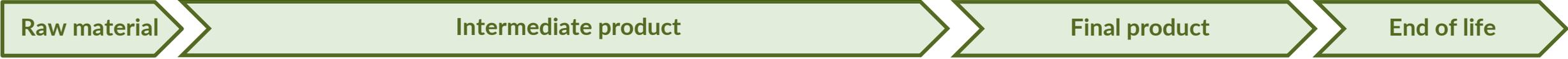


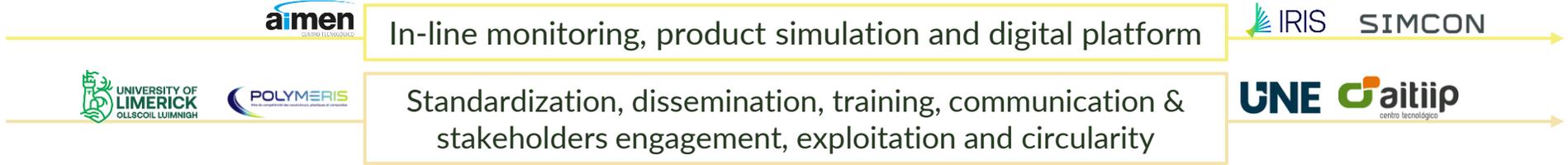
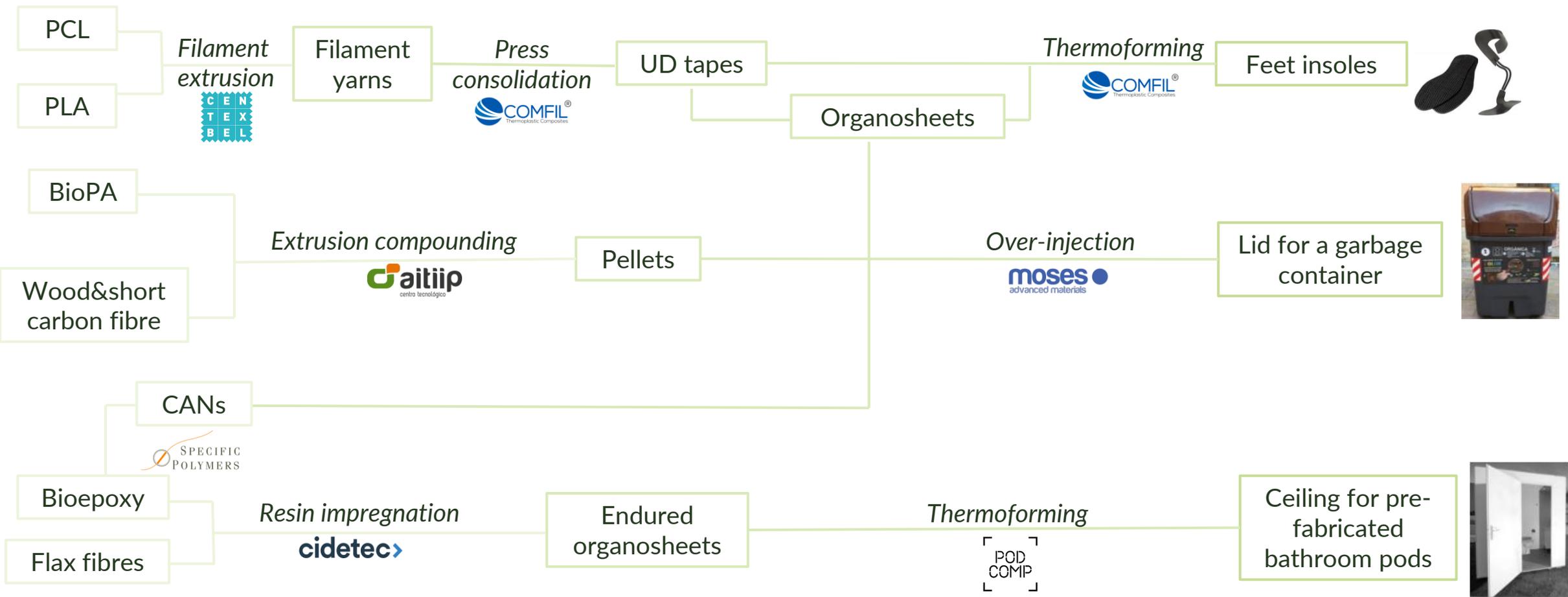
Ceiling for pre-fabricated bathroom pods











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