



This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement no. 101096858.



Developing markets for recycled materials



13th May 2026



Photo by Nicholas Doherty on Unsplash

Main Challenges

Renewable Energy (More and more Wind Farms are coming to the end of their useful service life)

- Landfill and Energy recovery (incineration) are not sustainable long-term solutions
- Cost and logistics
- Complex composite materials
- Limited Recycling technologies at scale
- Lack of end markets for recycled materials
- Regulatory uncertainty and inconsistency, etc.

Building & Construction, and other industries (How to adopt recycled materials)

- Performance Uncertainty
- Regulatory Compliance
- Traceability & Quality Assurance
- Integration Compatibility
- Cost-Value perception, etc.

Advance circularity of composite materials

- **Upcoming Regulations**, from waste policy to 2nd raw materials market policy
 - Circular Economy Act (CEA), Q3/26 to
 - Create a single market for 2nd Raw Material
 - Stimulate demand in EU , incentives,
 - End of Life Vehicles (ELV) expected soon
 - Design for recycling
 - Recycled content (e.g. 25% of plastic)
 - EPR
 - Net Zero Industry Act (public procurement)
 - Requirement for wind technologies including recycling rate for blades
- **European Circular Composites Alliance (ECCA)**
 - Gather all stakeholders including waste management , recyclers, to address the barriers

ACCIONA's role in REFRESH- Prototype Development



Horizon Europe
101096858

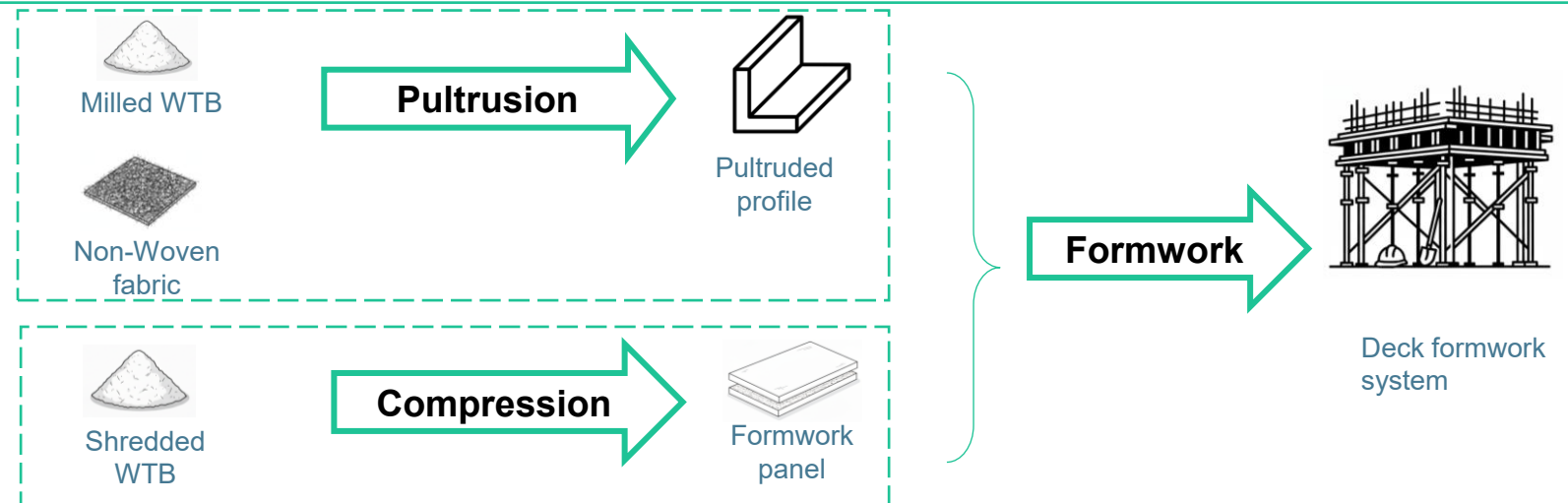
Prototype 1
A flat pultruded profile



Prototype 2
Infusion/Pultrusion laminate including non-woven recycled mats



Prototype 3
Deck formwork system



Our primary objective is to validate that these different recycled materials can perform at an industrial grade and scale:

- Milled WTB,
- Non-Woven fabrics and
- Shredded WTB

The ultimate goal for ACCIONA is to prove that we can replace virgin materials with recycled alternatives without sacrificing structural integrity. By doing so, we are transforming WTB into high-value assets for the global building and construction industry, fully realizing the circular vision of the REFRESH project.