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Photo by Nicholas Doherty on Unsplash

ACCIONA Construction introduction

When we talk about ACCIONA, we are talking about a company with over 100 years of experience. We cover every phase of the value chain, from initial design and engineering to the execution and subsequent maintenance of complex projects.

Over the last 50 years, the company has developed some of the most iconic infrastructure works in the world. But what truly sets us apart is our role at the cutting edge of R&D&I. We aren't just builders; we are material innovators. Specifically, ACCIONA brings a 20-year legacy in the use of composites within the Building and Construction industry, using advanced techniques to ensure our projects are as sustainable as they are durable.

ACCIONA's role in REFRESH - Prototype Development

Moving into the REFRESH project, ACCIONA's core responsibility is the development of functional prototypes. The retired end-of-life Wind Turbine Blades (WTB) will be recycled within REFRESH and the recovered materials will be incorporated in three primary industrial processes to develop following three prototypes.

ACCIONA's role in REFRESH - Prototype Development



Horizon Europe
101096858

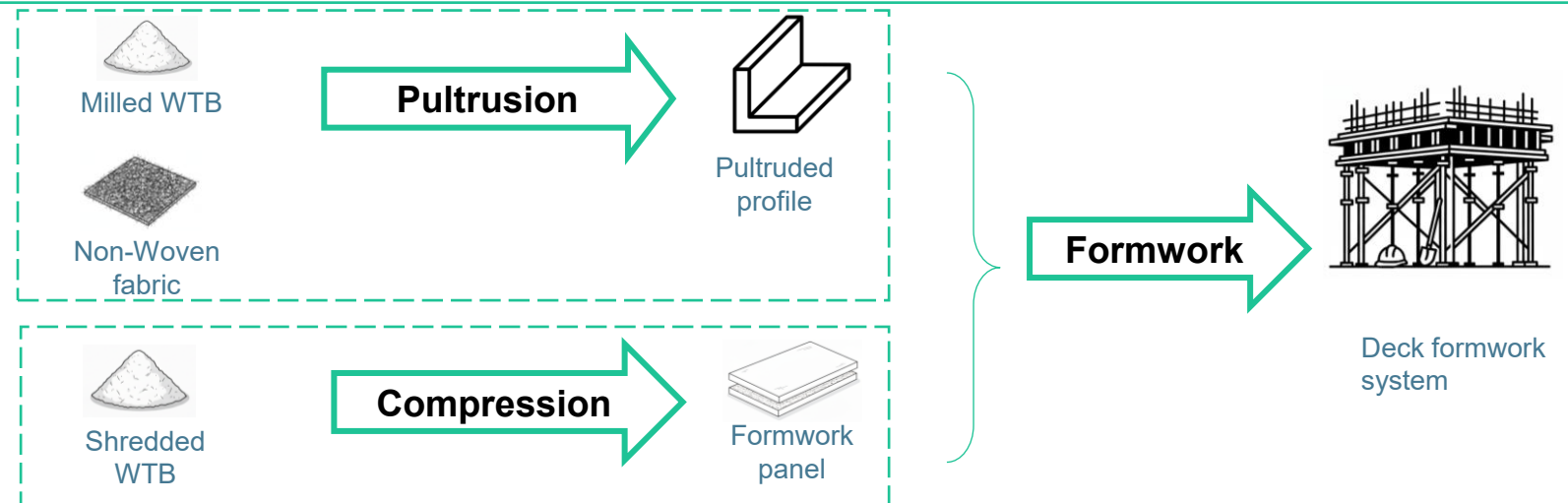
Prototype 1
A flat pultruded profile



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



Prototype 3
Deck formwork system



ACCIONA's Goals & Objectives

Finally, let's look at the goals we are achieving through these collaborations.

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.