Polymeric nano-composites of high performance suitable for multi applications

The project focuses on the study and development of new nano-composite polymeric materials of high added-value and performance. SiO_2 nano-particles and carbon nano-tubes will be prepared and properly modified to develop polymeric materials with improved mechanical strength and higher thermal, dimensional and hydrolytic stability than the conventional products of each one of the three small and medium sized enterprises that are participating.

Two experienced R&D institutes will develop and characterize the nano-particles and nano-tubes and the participating enterprises will help with the development and application of the polymeric nano-composites.

The final products that will be produced with these nano-particles are: wood-based panels (by Chimar Hellas company), coatings (by LOUFAKIS company) and plastic pipes (by CARINA company).

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Partners: Chimar Hellas / LOUFAKIS/CARINA
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