

PLATFORM: Introducing industrial perspective in nanoenabled composites

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PLATFORM project turns up for the need to efficiently and economically manufacture components using novel nano-enabled products at a scale suitable for industrial uptake. Currently, there is no facility in Europe for the manufacture of CNT continuous-sheet Buckypapers, nor for the large-scale manufacturing of thermoplastic CNT-doped nonwoven veils nor for large-scale production of CNT-treated prepregs.

The starting point of the PLATFORM project was three pilot lines offering these nano-enabled products at a lab scale, for applications in composite parts for sectors such as Aeronautic and Automotive. The pilot plants, at that point, could only manufacture small batches of nano-enabled products. PLATFORM's main focus was the automation of several steps in existing pilot lines' manufacturing processes, together with re-designed layouts, as well as on integrating different modules into full line, so as to be able to produce in a semi-industrial scale.

The up-scaled pilot lines successfully developed cost-effective nano-enabled products (with related PDS and TDS) for integration in Automotive and Aeronautical industrial use cases studies. Moreover, the open access upscaled facilities offer a network of nano-related manufacturing facilities suited to the needs of related SMEs.

The three products as well as advance associated services are offered in the open access platform (e-Platform) created during the project. Products and services can be found at www.nanocomposites-hub.com. The commercial activity of the e-Platform is part of a collaboration agreement signed by the three pilot lines owners, Tecnalia (Spain), Adamant Composites (Greece) and Technology Partners (Poland), in the form of a joint venture.

In this session the open access platform (e-Platform), including its products and services offered, will be present and analyzed.