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Micro knitting yarn bio-composites (metallic fibers, organic fibers and biodegradable resin) for the smart textile market

On the dynamic business scenario, be functional, smart and interactive are the most valuable assets to become a reference in our markets. The global smart textile market promotes the implementation of nanotech and bio-composite projects in this field. Please note the market by moving beyond traditional path of what means value and fulfilling business future. We can identify the strategic alliance between textile industry and several markets as polymer, cosmetic, health, architecture and fashion. For several years, while these S-textile program have been able to go beyond the original objectives and is seeking its way towards industrialization and mass production for enhancing the breakthrough of intelligence textile systems. Every innovative initiative is committed in improving the convergence between industries and the leading edge of the textile market; on this scenario, the priority is the deep understanding of megatrends and new segments. We discuss about the most important trends that will define the architecture future of smart textile world. The author will also discuss the following; Smart is the new green, innovation to zero, urbanization, connectivity and convergence. Smart is the new green; It is the evolution of green products to smart products and service. Smart is all about efficiency, convenience and savings. We can define better with the implementation of BIOMIMETIC and mathematical equation $\Sigma Et \times \Sigma Ee \times \Sigma Em = 0$, where time + force + movement must be Zero. Innovation to zero: means Innovation to negative beyond zero. It is a mega vision. It will be huge progress innovation to zero embrace research development planning and execution. All linked to the common labyrinth of sustainability as slow fashion. The era of Bio Smart-Textile world is a new approach to address the design in the modern architecture. The integration of bio composites and bioclimatic sensors that will lead to the emergence of new, innovative and unique design. Connectivity and convergence: Time in function of functionality, the power to communicate, respond, interact and broadcast information anytime, anywhere. Unique project which combine nano, engineered surfaces and microsystems physical sensors to create a seamless and intelligent life for us. Every project conceives in terms of human factor with profound impact on our society. Smart textile is a blue ocean, a revolution on the innovative and promissory market

Biography

Liliana Rubio is a Chemical Engineer, Master in Project Management, MBA in Business Administration, MBA in Innovation Management, Specialist in polymer; over 18 years' experience working on new business, R&D and marketing. She is a Lecturer on innovation and sustainability at universities and the main trade fairs of polymer and Fashion Industry in Latin America, EUA and Asia. She is the author of several articles that have been published in technology and business magazines. She is the Founder of PMO Polymer Business Intelligence is a Project Management Office, located in Sao Paulo-Brazil, dedicated to project management consulting, mentoring, covering project planning, implementation and execution through a front-to-end creative quantification approach, founder of SmartTex Hub ecosystem for the value chain of textile industry and final applications. She is the winner of the Clariant Corporation Innovation extra award: The sustainable project for the Green Industry on renewable resources. She is the winner Honorable Mention in Think Beyond Plastics Innovation competition on the category most innovative emerging business: plastic smog emissions closed loop (bio composites from waste micro plastic particles (beads and fibers). She is the Sponsor and Finalist in the competitions Acelera Brasil and SUSTEX Tunisia with the projects about smart and sustainable fashion S-Textil.

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