

Smart Surfaces Markets 2015-2022

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Abstracts

In this report, NanoMarkets identifies the emerging market opportunities for smart surfaces across a wide range of applications. Smart surfaces are capable of rearranging their morphology or composition in response to changes of the ambient environment. We expect smart surfaces to capitalize on the recent commercial successes of smart coatings and note both the extensive R&D in the field of smart surfaces and the beginnings of commercialization.

The report examines the use of metal oxides, polymers and biomaterials to create smart surfaces, as well as the use of novel patterning technologies including those derived from nanomanufacturing. We provide a roadmap and eight-year forecast (in volume and value terms) for smart surfaces in five important end-user sectors: energy, electronics, healthcare, automotive and aerospace, and the military. For each sector, we provide breakouts by materials type. In addition, the report also assesses the R&D and marketing strategies of the leading firms that are active in the commercialization of smart coatings.

NanoMarkets' market assessment of the smart coatings market is based both on the latest results from the lab and current marketing trends. For example, we examine how smart surfaces will play out in the Internet-of-Things and how recent changes in the energy sector will impact the prospects for smart surfaces. The report also examines how smart surfaces will find their place in smart environments where they must compete with embedded sensors and smart coatings.

The industry analysis in this report builds on NanoMarkets extensive program on the markets for smart coatings. NanoMarkets has been providing coverage in the smart coatings space for five years.

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