Global 3D Printing in Construction Market 2019 Industry Key Players,Trends,Sales, Supply,Demand,Analysis & Forecast 2025

PUNE, MAHARASHTRA, INDIA, March 22, 2019 /EINPresswire.com/ -- Summary:

A new market study, titled “Discover Global 3D Printing in Construction Market Upcoming Trends, Growth Drivers and Challenges” has been featured on WiseGuyReports.

Introduction

Global 3D Printing in Construction Market

The Global 3D Printing in Construction market was valued around USD 120 million in 2017 and is forecast to reach USD xx million by 2025, with a CAGR of xx% during the forecast pe-riod (2018-2025). 3D printing is the computer-controlled sequential layering of materials to create three-dimensional shapes. It is particularly useful in prototyping and for the manu-facture of geometrically complex components. The market for 3D Printing is proliferating in the construction industry owing to its advantages such as new shapes & design possibilities, lower costs, remote location construction, more precise building, and many more. However, 3D printed architecture has certain limitations such as expensive initial investment, partial-ly-built houses, and rough exterior.

Material extrusion, powder bonding and wire arc additive manufacturing (WAAC) are the primary technologies used in the construction industry. Material extrusion is also known as concrete printing, contour crafting, and deposition modeling. The process differs from the long-established sprayed-concrete method, in that it applies the material precisely and takes a layer-by-layer approach. WAAC method involves the use of an electric arc to melt wire and a robotic welder or drip feeder to construct a metal object drop by drop. The pro-cess has gained extensive publicity through MX3D’s bridge project in Amsterdam. As of now, 3D printing technology is limited a few applications such as buildings, bridges, printed molds, building components, architectural models, and interior designs.

Growing construction costs, raw material cost and labour costs across the globe will boost the market for construction 3D printing shortly.

With the help of new technologies in the construction industry, the building process has be-come more convenient, but the overall cost of the architecture is increasing eventually. The above graph shows the price of construction per m2 of land across significant countries. This is where contour crafting comes into picture which helps in reducing the cost of con-struction by 60% approximately.

On a large scale, 3D printed architectures would have the potential for minimizing the ma-terial costs and labour cost. This could be helpful for emerging countries, where homes could be built for less.

High capital investment and regulations are the major restraints of 3D printing in con-struction Market

The adoption of 3D printing in construction has been hampered by several factors such as regulations on building codes, performance-based standards and wide regional variation in regulations. In many regions, clients are unconvinced about the safety and durability of 3D printed buildings. However, some applications are already developed commercially such as 3D printed moulds, architectural models, and some of the building components.

The report covers the factors impacting the market, Porter 5 Forces, Market Share Analysis, Price trend analysis, Product Benchmarking, and company profiles. 3D Printing in Construc-tion Market is segmented based on the type of printing material into concrete, plastics, metals, ceramics, and others. The market further classified based on the printing technology such as FDM, SLA, SLS, SLM, and Others. In addition, the market is classified by the end user, which includes residential, commercial, industrial and space.

The report profiles the following companies, which includes Apis Cor, Winsun, Contour Crafting Corporation, CAZZA, Belatchew Arkitekter, Skanska, MX3D and many more.

Key market segments covered

Type of Printing Material

• Concrete

• Plastics

• Metals

• Ceramics

• Others

By End User

• Residential

• Commercial

• Industrial

• Space

By Printing Technology

• Fuel Deposition Modelling (FDM)

• Stereolithography (SLA)

• Selective Laser Sintering (SLS)

• Selective laser melting (SLM)

• Others

By Region

• Asia Pacific

• Europe

• North America

• South America

• Rest of the World

Why purchase the report?

• Identify commercial opportunities in 3D Printing in Construction market by analysing trends and co-development deals.

• Excel data sheet with thousands of data points of the 3D Printing in Construction market level 4/5 segmentation

• PDF report with the most relevant analysis cogently put together after exhaustive qualitative interviews and in-depth market study

• Product mapping in excel for the key 3D Printing in Construction market products of all major market players

• List of the major 3D printed construction projects and future projects are discussed in the report

Target Audience

• Raw Material Suppliers/ Buyers

• Product Suppliers/ Buyers

• Industry Investors/Investment Bankers

• Education & Research Institutes

• Research Professionals

• Emerging Companies

• Manufacturers

Table of Contents

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