

3D Printing Construction Market by Material Type (Concrete, Metal, Composite), Construction Method (Extrusion, Powder Bonding), End-Use Sector (Building, Infrastructure), Region (North America, Europe, APAC, ROW) - Global Forecast to 2024

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Abstracts

“The 3D printing construction market is projected to register a CAGR of 245.9%, in terms of value, between 2019 and 2024.”

The 3d printing construction market size is estimated to be USD 3 million in 2019 and is projected to reach USD 1,575 million by 2024, at a CAGR of 245.9% between 2019 and 2024. 3D printing construction is used in different industries, such as building and infrastructure. This innovative method is highly promising and advantageous in the construction industry in terms of cost-effectiveness, construction time, flexibility, design, error reduction, and environmental aspects. The superior features offered by 3D printing construction are enabling its usage in various end-use industries.

“Extrusion construction method accounted for the largest share, in terms of value and volume, of the overall 3D printing construction market.”

Extrusion construction method dominated the overall 3D printing construction market in 2018. 3D printing construction possesses characteristics such as cost-effectiveness, construction time, flexibility, design, error reduction, and environmental aspects. An extrusion construction method is used in the construction industry and possesses the capability to produce large-scale building components with complex geometrical structures.

“Concrete material type accounted for the largest share, in terms of value and volume,

of the 3D printing construction market.”

Concrete material type dominated the overall 3D printing construction market in 2018. The use of concrete material in the 3D printing construction market offers various advantages such as cost-effectiveness, design flexibility, environmental resistance, extrudability, buildability, flowability, compressive strength, and open time. The concrete material is used while extruding in the 3D printing construction process.

” The 3D printing construction market in the building end-use sector is expected to register the highest CAGR between 2019 and 2024.”

The increasing use of 3D printing in the building sector is mainly due to 3D construction printing offers excellent thermal qualities that are strong enough to withstand external factors such as heat. Furthermore, 3D printing construction’s capability to develop complex building geometries, safety, more precision, and less waste has resulted in the development of complex building structures at an affordable rate. This technology helps in creating lightweight components such as walls and panels while maintaining structural integrity, lowering the handling & transportation costs.

”The 3D printing construction market in the APAC is projected to register the highest CAGR, in terms of value and volume, between 2019 and 2024.”

The APAC dominated the global 3D printing construction market. The region has the presence of many manufacturers of 3D printing construction and its products. China accounted for a significant share of the market in APAC and is expected to register substantial growth during the forecast period. The growth of the 3D printing construction market in this region is driven mainly by the growing building and infrastructure end-use sectors.

Breakdown of Profiles of Primary Interviews:

By Company Type: Tier 1 – 40%, Tier 2 - 33%, and Tier 3 - 27%

By Designation: C level - 50%, Director level - 20%, and Others - 30%

By Region: Europe - 50%, North America - 20%, APAC -15%, RoW - 15%

The 3D printing construction market comprises major solution providers such as

Yingchuang Building Technique (China), XtreeE (France), Apis Cor (Russia), Monolite UK (UK), CSP s.r.l. (Italy), CyBe Construction (Netherlands), Sika (Switzerland), MX3D (Netherlands), Cazza Construction Technologies (California), and ICON (Texas). The study includes an in-depth competitive analysis of these key players in the 3D printing construction market, with their company profiles, recent developments, and key market strategies.

Research Coverage

The study covers the 3D printing construction market. It aims at estimating the market size and the growth potential of this market across different segments, such as process type, material type, end-use industry, and region. Porter's Five Forces analysis and the key market dynamics, such as drivers, restraints, challenges, and opportunities, influencing the growth of the 3D printing construction market have been discussed in the report. The report also provides company profiles and competitive benchmarking of major players operating in the market.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers of the overall 3D printing construction market and its subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. It will also help stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

Contents

1 INTRODUCTION

- 1.1 OBJECTIVES OF THE STUDY
- 1.2 MARKET DEFINITION
- 1.3 MARKET SCOPE
 - 1.3.1 REGIONS COVERED
 - 1.3.2 YEARS CONSIDERED FOR THE STUDY
- 1.4 CURRENCY
- 1.5 UNIT CONSIDERED
- 1.6 STAKEHOLDERS

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primary interviews
- 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - 2.2.1.1 TOP-DOWN APPROACH
- 2.3 DATA TRIANGULATION
- 2.4 ASSUMPTIONS
- 2.5 LIMITATIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

- 4.1 ATTRACTIVE OPPORTUNITIES IN THE 3D PRINTING CONSTRUCTION MARKET
- 4.2 3D PRINTING CONSTRUCTION MARKET, BY MATERIAL TYPE AND REGION
- 4.3 3D PRINTING CONSTRUCTION MARKET, BY END-USE SECTOR
- 4.4 3D PRINTING CONSTRUCTION MARKET, BY CONSTRUCTION METHOD
- 4.5 3D PRINTING CONSTRUCTION MARKET, BY COUNTRY

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

5.2.1 DRIVERS

5.2.1.1 Potential for mass customization and enhanced architectural flexibility

5.2.1.2 Reduction in health & safety risks and rate of accidents

5.2.1.3 Inherently green technology

5.2.2 RESTRAINTS

5.2.2.1 High capital investment

5.2.3 OPPORTUNITIES

5.2.3.1 Rise in demand for new construction projects across regions

5.2.3.2 Rapid urbanization

5.2.4 CHALLENGES

5.2.4.1 Increase the awareness about automation techniques in the construction industry

5.2.4.2 Smooth surface finish

5.2.4.3 Limited size of the printers

5.2.4.4 Partially built houses

5.3 PORTER'S FIVE FORCES ANALYSIS

5.3.1 THREAT OF SUBSTITUTES

5.3.2 THREAT OF NEW ENTRANTS

5.3.3 BARGAINING POWER OF SUPPLIERS

5.3.4 BARGAINING POWER OF BUYERS

5.3.5 INTENSITY OF COMPETITIVE RIVALRY

5.4 MACROECONOMIC INDICATORS

5.4.1 INTRODUCTION

5.4.2 RISING POPULATION

5.4.3 INCREASE IN MIDDLE-CLASS POPULATION, 2009–2030

5.4.4 TRENDS AND FORECAST OF GDP

5.4.5 CONTRIBUTION OF THE CONSTRUCTION INDUSTRY TO THE GDP, BY COUNTRY

6 3D PRINTING CONSTRUCTION MARKET, BY MATERIAL TYPE

6.1 INTRODUCTION

6.2 CONCRETE

6.2.1 CONCRETE MATERIAL DOMINATES THE 3D PRINTING CONSTRUCTION MARKET

6.3 METAL

6.3.1 METAL PROVIDES HIGHER MECHANICAL STRENGTH AND COST-BENEFIT IN 3D PRINTING CONSTRUCTION

6.4 COMPOSITE

6.4.1 COMPOSITE IS THE SECOND-LARGEST SEGMENT IN THE 3D PRINTING CONSTRUCTION MARKET

6.5 OTHERS

7 3D PRINTING CONSTRUCTION MARKET, BY CONSTRUCTION METHOD

7.1 INTRODUCTION

7.2 EXTRUSION

7.2.1 EXTRUSION IS ONE OF THE MOST WIDELY USED 3D PRINTING CONSTRUCTION METHODS

7.3 POWDER BONDING

7.3.1 POWDER BONDING CONSTRUCTION METHOD IS HIGHLY SUITABLE FOR OFF-SITE PROCESS

8 3D PRINTING CONSTRUCTION MARKET, BY END-USE SECTOR

8.1 INTRODUCTION

8.2 BUILDING

8.2.1 THE ABILITY OF 3D PRINTING TECHNOLOGY TO DEVELOP COMPLEX BUILDING GEOMETRIES IS DRIVING ITS DEMAND IN THE SEGMENT

8.3 INFRASTRUCTURE

8.3.1 DESIGN FLEXIBILITY IS A KEY FEATURE DRIVING THE MARKET IN THE INFRASTRUCTURE SEGMENT

9 3D PRINTING CONSTRUCTION MARKET, BY REGION

9.1 INTRODUCTION

9.2 EUROPE

9.2.1 RUSSIA

9.2.1.1 Increasing government's focus on the development of affordable housing is positively influencing the market in Russia

9.2.2 FRANCE

9.2.2.1 France is one of the most dominant economies in Europe

9.2.3 DENMARK

9.2.3.1 Growing demand for new residential construction activities and time-saving building solutions are likely to drive the market in Denmark

9.2.4 SPAIN

9.2.4.1 Increasing demand for affordable houses is driving the market in the building segment in Spain

9.2.5 NETHERLANDS

9.2.5.1 Increased private and government investments in various sectors are likely to drive the market in the country

9.2.6 ITALY

9.2.6.1 Growing demand for cost-effective and time-saving construction methods is resulting in the market growth in Italy

9.3 ROW

9.3.1 UAE

9.3.1.1 The UAE represents vast 3D printing technology in the construction sector

9.3.2 SAUDI ARABIA

9.3.2.1 Saudi Arabia is the largest and fastest-growing 3D printing construction market in RoW

9.4 APAC

9.4.1 CHINA

9.4.1.1 China dominates the 3D printing construction market in the APAC region

9.4.2 THAILAND

9.4.2.1 3D printing construction is at the initial stage in Thailand

9.5 NORTH AMERICA

9.5.1 US

9.5.1.1 Need for affordable and safe housing drives the

3D PRINTING CONSTRUCTION MARKET IN THE US

9.5.2 EL SALVADOR

9.5.2.1 El Salvador is the potential 3D printing construction market in the North American Region

9.6 OTHER POTENTIAL MARKETS

9.6.1 INDIA

9.6.2 JAPAN

9.6.3 BRAZIL

9.6.4 EGYPT

10 COMPETITIVE LANDSCAPE

10.1 INTRODUCTION

10.1.1 COMPETITIVE LEADERSHIP MAPPING

- 10.1.1.1 Visionary leaders
- 10.1.1.2 Dynamic differentiators
- 10.1.1.3 Emerging companies
- 10.1.1.4 Innovators

10.1.2 STRENGTH OF PRODUCT PORTFOLIO

10.1.3 BUSINESS STRATEGY EXCELLENCE

10.1.4 MARKET RANKING

10.2 COMPETITIVE SCENARIO

10.2.1 NEW PROJECT

10.2.2 PARTNERSHIP

10.2.3 EXPANSION

10.2.4 JOINT VENTURE

10.2.5 AGREEMENT

10.2.6 PRODUCT LAUNCH

10.2.7 INVESTMENT

10.2.8 CONTRACT

11 COMPANY PROFILES

(Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View)*

11.1 YINGCHUANG BUILDING TECHNIQUE (WINSUN)

11.2 XTREEE

11.3 APIS COR

11.4 MONOLITE UK (D-SHAPE)

11.5 CSP S.R.L. (CENTRO SVILUPPO PROGETTI)

11.6 CYBE CONSTRUCTION

11.7 SIKA

11.8 MX3D

11.9 CONTOUR CRAFTING

11.10 ICON

11.11 OTHER PLAYERS

11.11.1 BETABRAM

11.11.2 ROHACO

11.11.3 IMPRIMERE AG

11.11.4 BEIJING HUASHANG LUHAI TECHNOLOGY

11.11.5 TOTAL KUSTOM

11.11.6 SPETSAVIA

11.11.7 LIFETEC CONSTRUCTION GROUP INC

11.11.8 BE MORE 3D

11.11.9 3D PRINTHUSET

11.11.10 ACCIONA

*Details on Business Overview, Products Offered, Recent Developments, SWOT Analysis, MnM View might not be captured in case of unlisted companies.

12 APPENDIX

12.1 DISCUSSION GUIDE

12.2 KNOWLEDGE STORE: MARKETSandMARKETS SUBSCRIPTION PORTAL

12.3 AVAILABLE CUSTOMIZATIONS

12.4 RELATED REPORTS

12.5 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 GDP (CURRENT PRICES), BY COUNTRY, 2015–2022 (USD BILLION)

TABLE 2 NORTH AMERICA: CONTRIBUTION OF THE CONSTRUCTION INDUSTRY TO GDP, BY COUNTRY, 2014–2024 (USD BILLION)

TABLE 3 EUROPE: CONTRIBUTION OF CONSTRUCTION INDUSTRY TO GDP, BY COUNTRY, 2014–2024 (USD BILLION)

TABLE 4 APAC: CONTRIBUTION OF CONSTRUCTION INDUSTRY TO GDP, BY COUNTRY, 2014–2024 (USD BILLION)

TABLE 5 MIDDLE EAST & AFRICA: CONTRIBUTION OF CONSTRUCTION INDUSTRY TO GDP, BY COUNTRY, 2014–2024 (USD BILLION)

TABLE 6 3D PRINTING CONSTRUCTION MARKET SIZE, BY MATERIAL TYPE, 2017–2024 (USD THOUSAND)

TABLE 7 3D PRINTING CONSTRUCTION MARKET SIZE, BY MATERIAL TYPE, 2017–2024 (SQUARE METER)

TABLE 8 CONCRETE 3D PRINTING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 9 CONCRETE 3D PRINTING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (SQUARE METER)

TABLE 10 METAL 3D PRINTING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 11 METAL 3D PRINTING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (SQUARE METER)

TABLE 12 COMPOSITE 3D PRINTING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 13 COMPOSITE 3D PRINTING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (SQUARE METER)

TABLE 14 OTHER 3D PRINTING CONSTRUCTION MATERIALS MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 15 OTHER 3D PRINTING CONSTRUCTION MATERIALS MARKET SIZE, BY REGION, 2017–2024 (SQUARE METER)

TABLE 16 3D PRINTING CONSTRUCTION MARKET SIZE, BY CONSTRUCTION METHOD, 2017–2024 (USD THOUSAND)

TABLE 17 3D PRINTING CONSTRUCTION MARKET SIZE, BY CONSTRUCTION METHOD, 2017–2024 (SQUARE METER)

TABLE 18 3D PRINTING EXTRUDED CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 19 3D PRINTING EXTRUDED CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (SQUARE METER)

TABLE 20 3D PRINTING POWDER-BONDING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 21 3D PRINTING POWDER-BONDING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (SQUARE METER)

TABLE 22 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 23 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 24 3D PRINTING CONSTRUCTION MARKET SIZE IN BUILDING, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 25 3D PRINTING CONSTRUCTION MARKET SIZE IN BUILDING, BY REGION, 2017–2024 (SQUARE METER)

TABLE 26 3D PRINTING CONSTRUCTION MARKET SIZE IN INFRASTRUCTURE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 27 3D PRINTING CONSTRUCTION MARKET SIZE IN INFRASTRUCTURE, BY REGION, 2017–2024 (SQUARE METER)

TABLE 28 3D PRINTING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (USD THOUSAND)

TABLE 29 3D PRINTING CONSTRUCTION MARKET SIZE, BY REGION, 2017–2024 (SQUARE METER)

TABLE 30 EUROPE: 3D PRINTING CONSTRUCTION MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 31 EUROPE: 3D PRINTING CONSTRUCTION MARKET SIZE, BY COUNTRY, 2017–2024 (SQUARE METER)

TABLE 32 EUROPE: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 33 EUROPE: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2016–2023 (SQUARE METER)

TABLE 34 3D-PRINTED PROJECTS IN RUSSIA

TABLE 35 3D-PRINTED PROJECTS IN FRANCE

TABLE 36 FRANCE: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 37 FRANCE: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 38 3D-PRINTED PROJECTS IN DENMARK

TABLE 39 3D-PRINTED PROJECTS IN SPAIN

TABLE 40 3D-PRINTED PROJECTS IN THE NETHERLANDS

TABLE 41 NETHERLANDS: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 42 NETHERLANDS: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 43 3D-PRINTED PROJECTS IN ITALY

TABLE 44 ROW: 3D PRINTING CONSTRUCTION MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 45 ROW: 3D PRINTING CONSTRUCTION MARKET SIZE, BY COUNTRY, 2017–2024 (SQUARE METER)

TABLE 46 ROW: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 47 ROW: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 48 3D-PRINTED PROJECTS IN UAE

TABLE 49 UAE: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 50 UAE: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 51 SAUDI ARABIA: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 52 SAUDI ARABIA: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 53 APAC: 3D PRINTING CONSTRUCTION MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 54 APAC: 3D PRINTING CONSTRUCTION MARKET SIZE, BY COUNTRY, 2017–2024 (SQUARE METER)

TABLE 55 APAC: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 56 APAC: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 57 3D-PRINTED PROJECTS IN CHINA

TABLE 58 CHINA: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 59 CHINA: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 60 NORTH AMERICA: 3D PRINTING CONSTRUCTION MARKET SIZE, BY COUNTRY, 2017–2024 (USD THOUSAND)

TABLE 61 NORTH AMERICA: 3D PRINTING CONSTRUCTION MARKET SIZE, BY COUNTRY, 2017–2024 (SQUARE METER)

TABLE 62 NORTH AMERICA: 3D PRINTING CONSTRUCTION MARKET SIZE, BY
END-USE SECTOR, 2017–2024 (USD THOUSAND)

TABLE 63 NORTH AMERICA: 3D PRINTING CONSTRUCTION MARKET SIZE, BY
END-USE SECTOR, 2017–2024 (SQUARE METER)

TABLE 64 3D-PRINTED PROJECTS IN THE US

TABLE 65 US: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE
SECTOR, 2017–2024 (USD THOUSAND)

TABLE 66 US: 3D PRINTING CONSTRUCTION MARKET SIZE, BY END-USE
SECTOR, 2017–2024 (SQUARE METER)

TABLE 67 NEW PROJECT, 2015–2018

TABLE 68 PARTNERSHIP, 2016–2019

TABLE 69 EXPANSION, 2015–2019

TABLE 70 JOINT VENTURE, 2016–2017

TABLE 71 AGREEMENT, 2016–2017

TABLE 72 PRODUCT LAUNCH, 2015

TABLE 73 INVESTMENT, 2017

TABLE 74 CONTRACT, 2018

List Of Figures

LIST OF FIGURES

FIGURE 1 3D PRINTING CONSTRUCTION MARKET SEGMENTATION

FIGURE 2 3D PRINTING CONSTRUCTION: RESEARCH DESIGN

FIGURE 3 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH

FIGURE 4 MARKET SIZE ESTIMATION: TOP-DOWN APPROACH

FIGURE 5 3D PRINTING CONSTRUCTION MARKET: DATA TRIANGULATION

FIGURE 6 BUILDING SECTOR TO GROW AT A FASTER CAGR DURING THE FORECAST YEAR

FIGURE 7 EXTRUSION SEGMENT IS ESTIMATED TO DOMINATE THE 3D PRINTING CONSTRUCTION MARKET

FIGURE 8 CONCRETE MATERIAL IS ESTIMATED TO DOMINATE THE 3D PRINTING CONSTRUCTION MARKET IN 2018

FIGURE 9 EUROPE ACCOUNTED FOR THE LARGEST SHARE IN THE 3D PRINTING CONSTRUCTION MARKET IN 2018

FIGURE 10 SAUDI ARABIA TO BE THE FASTEST-GROWING 3D PRINTING CONSTRUCTION MARKET

FIGURE 11 HIGH DEMAND FROM THE BUILDING SECTOR TO DRIVE THE MARKET

FIGURE 12 EUROPE ACCOUNTED FOR THE LARGEST MARKET SHARE

FIGURE 13 BUILDING SECTOR TO DOMINATE THE OVERALL 3D PRINTING CONSTRUCTION MARKET

FIGURE 14 EXTRUSION ACCOUNTS FOR THE LARGER SHARE OF THE OVERALL

3D PRINTING CONSTRUCTION MARKET

FIGURE 15 SAUDI ARABIA TO REGISTER THE HIGHEST CAGR IN THE 3D PRINTING CONSTRUCTION MARKET

FIGURE 16 DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN THE 3D PRINTING CONSTRUCTION MARKET

FIGURE 17 3D PRINTING CONSTRUCTION MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 18 CONCRETE REMAINS THE WIDELY USED MATERIAL TYPE FOR 3D PRINTING CONSTRUCTION

FIGURE 19 APAC TO REGISTER THE HIGHEST CAGR IN THE CONCRETE MATERIAL SEGMENT

FIGURE 20 EXTRUSION TO BE THE WIDELY USED CONSTRUCTION METHOD

FOR

3D CONSTRUCTION PRINTING

FIGURE 21 APAC TO REGISTER A HIGH CAGR FOR EXTRUSION CONSTRUCTION METHOD

FIGURE 22 BUILDING TO BE THE LEADING END-USER SEGMENT IN THE MARKET

FIGURE 23 APAC TO BE THE SECOND-FASTEST GROWING MARKET IN THE BUILDING SEGMENT

FIGURE 24 SAUDI ARABIA IS PROJECTED TO BE THE FASTEST-GROWING COUNTRY-LEVEL MARKET, 2019–2024

FIGURE 25 EUROPE: 3D PRINTING CONSTRUCTION MARKET SNAPSHOT

FIGURE 26 APAC: 3D PRINTING CONSTRUCTION MARKET SNAPSHOT

FIGURE 27 NORTH AMERICA: 3D PRINTING CONSTRUCTION MARKET SNAPSHOT

FIGURE 28 NEW PROJECT IS THE MOST ADOPTED KEY GROWTH STRATEGY BETWEEN 2015 AND 2018

FIGURE 29 3D PRINTING CONSTRUCTION MARKET: COMPETITIVE LEADERSHIP MAPPING, 2018

FIGURE 30 YINGCHUANG BUILDING TECHNIQUE (WINSUN): SWOT ANALYSIS

FIGURE 31 XTREEE: SWOT ANALYSIS

FIGURE 32 APIS COR: SWOT ANALYSIS

FIGURE 33 MONOLITE UK (D-SHAPE): SWOT ANALYSIS

FIGURE 34 SIKA: COMPANY SNAPSHOT

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