

North America 3D Printing Market by Component (Stereolithography, Selective Laser Sintering, Electron Beam Melting, Fused Deposition Modeling, Laminated Object Manufacturing, 3D printing materials, Polymers, Metal and Alloys, Ceramic) and Application (Consumer products, Industrial, Aerospace, Automotive, Healthcare, Defense, Education and research) - Opportunity Analysis and Industry Forecast, 2015-2022

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Abstracts

3D manufacturing, also known as additive manufacturing, is used for the development of 3D objects utilizing a digital file. Additive processes involve successive layering of material for creation of objects. 3D printing gained acceptance in various industries for development of customized products owing to high accuracy, efficient use of materials, and reduced production time and cost. Earlier, 3D printing was limited to rapid production of prototypes; however, with technological advancements and growing applications, it is used increasingly for functional testing of prototypes under working conditions and development of final products. Major application of 3D printing technology is in industries such as consumer goods, healthcare, education and research, defense, aerospace, and automotive. The automotive and aerospace industries use this technology to manufacture affordable, complex, and lighter components. Healthcare and dental sectors implement 3D printing for the development of prosthetics, medical, and dental fixtures. The major driving factors of the market include efficient use of materials, minimized human errors, customization of products, and reduced production time and cost. However, the high cost associated with 3D printing software and lack of skilled labor limit the market growth. Application in diverse

industries and additional choice of materials are likely to provide numerous growth opportunities. The initiatives of the American governments for the development of 3D printing and funding for R&D accelerate the adoption of this technology in this region.

A large number of companies present in the market offer 3D printers, 3D printing materials, and 3D printing services. These companies have adopted acquisitions and collaborations to enhance their product portfolio. In May 2014, Autodesk acquired Within Technologies Limited, a U.K. design and simulation software developer company, which helped Autodesk to develop tools and technologies for 3D printing. In February 2015, The ExOne Company introduced six new printable materials, which are used in the company's 3D printing systems. This launch enhanced the existing portfolio of the company, offering a wide variety of new materials. Other leading players in this market include 3D Systems, Autodesk Inc., Stratasys Ltd., The ExOne Company, Optomec, Inc., Organovo Holdings, Inc., Arevo Labs, and EnvisionTEC.

The North America 3D printing market is segmented on the basis of components, application, and country. The component segment is further categorized into technology-based printers, materials, and services. Based on the technology, the printers are segmented into stereolithography, selective laser sintering, electron beam melting, fused deposition modeling, laminated object manufacturing, and others. The market is segmented into polymers, metals & alloys, ceramic, and others based on the material. The various applications using 3D printing include consumer products, industrial products, aerospace, defense, automotive, healthcare, education & research and others.

KEY BENEFITS:

The study provides an in-depth analysis of the North America 3D printing market to elucidate the imminent investment pockets in the market.

Current trends and future estimations are outlined to determine the overall market potential and single out profitable trends to gain a stronger foothold.

The report provides information regarding key drivers, restraints, and opportunities with a detailed impact analysis.

A quantitative analysis of the current market and future estimations from 2015 to 2022 are provided to showcase the financial competency of the market.

Porter's five forces model and SWOT analysis of the industry illustrate the

potency of the buyers and suppliers.

Value chain analysis provides a clear understanding of the roles of stakeholders involved.

NORTH AMERICA 3D PRINTING MARKET KEY SEGMENTS:

The market is segmented on the basis of components, applications, and countries.

BY COMPONENT

Technology-based printers

- Stereolithography

- Selective Laser Sintering

- Electron Beam Melting

- Fused Deposition Modeling

- Laminated Object Manufacturing

- Others

3D printing materials

- Polymers

- Metal and Alloys

- Ceramic

- Others

Services

BY APPLICATION

Consumer products

Industrial

Aerospace

Automotive

Healthcare

Defense

Education and research

Others

BY COUNTRY

U.S.

Canada

Mexico

KEY PLAYERS

3D Systems

Autodesk, Inc.

Stratasys Ltd.

The ExOne Company

Optomec, Inc.

Organovo Holdings, Inc.

Arevo Labs

Arcam AB

EnvisionTEC

E. I. duPont de Nemours and Company

Contents

CHAPTER 1 INTRODUCTION

- 1.1 Report description
- 1.2 Key benefits
- 1.3 Key market segment
- 1.4 Research methodology
 - 1.4.1 Secondary research
 - 1.4.2 Primary research
 - 1.4.3 Analyst tools and models

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 CXO perspective

CHAPTER 3 MARKET OVERVIEW

- 3.1 Market definition and scope
- 3.2 Conventional versus 3D printing technology
- 3.3 Key findings
 - 3.3.1 Top factors impacting 3D printing market
 - 3.3.2 Top winning strategies in the 3D printing market, 2010-2015
 - 3.3.3 Top Investment Pockets
- 3.4 Porters five force analysis
 - 3.4.1 Limited suppliers and low switching cost to consumers lead to moderate bargaining power of suppliers
 - 3.4.2 Low switching cost, availability of substitute products and price- sensitive consumers lead to high bargaining power of buyers
 - 3.4.3 Superior manufacturing quality as compared to the conventional technology would lead to lower threat of substitutes
 - 3.4.4 Presence of dominant market players and high investment cost lead to moderate threat of new entrants
 - 3.4.5 Insignificant brand loyalty increases the intensity of rivalry within industry
- 3.5 Value chain analysis
- 3.6 Market share analysis, 2015
- 3.7 Drivers
 - 3.7.1 Efficient use of materials
 - 3.7.2 Use of multiple materials for printing

- 3.7.3 Reduction in human error
- 3.7.4 Customization of products
- 3.7.5 More competitive advantage
- 3.7.6 Delivering various innovation opportunities
- 3.7.7 Reduces development cost and time
- 3.7.8 Efficient logistic management
- 3.7.9 Higher resolution
- 3.8 Restraints
 - 3.8.1 Higher cost for individual user
 - 3.8.2 Software required for 3D printing are expensive
 - 3.8.3 Lack of channel partner assistance
 - 3.8.4 Lack of skilled labour
- 3.9 Opportunities
 - 3.9.1 Applications in various industries and improved manufacturing process
 - 3.9.2 Increasing applications in medical science
 - 3.9.3 Additional choice of materials

CHAPTER 4 NORTH AMERICA 3D PRINTING MARKET, BY COMPONENT

- 4.1 North America 3D printing market revenue by component

CHAPTER 5 NORTH AMERICA 3D PRINTING MARKET, BY TECHNOLOGY

- 5.1 North America 3D printing market by technology
- 5.2 Stereolithography (SLA)
 - 5.2.1 Key market trends
 - 5.2.2 Key growth factors and opportunities
 - 5.2.3 Market size and forecast
- 5.3 Selective laser sintering (SLS)
 - 5.3.1 Key market trends
 - 5.3.2 Key growth factors and opportunities
 - 5.3.3 Market size and forecast
- 5.4 Electron beam melting (EBM)
 - 5.4.1 Key market trends
 - 5.4.2 Key growth factors and opportunities
 - 5.4.3 Market size and forecast
- 5.5 Fused deposition modeling (FDM)
 - 5.5.1 Key market trends
 - 5.5.2 Key growth factors and opportunities

- 5.5.3 Market size and forecast
- 5.6 Laminated object manufacturing (LOM)
 - 5.6.1 Key market trends
 - 5.6.2 Key growth factors and opportunities
 - 5.6.3 Market size and forecast
- 5.7 Others
 - 5.7.1 ColorJet printing
 - 5.7.2 MultiJet printing
 - 5.7.3 Market size and forecast

CHAPTER 6 NORTH AMERICA 3D PRINTING MATERIAL MARKET, BY TYPE OF MATERIAL

- 6.1 North America 3D printing market by type of material
- 6.2 Polymers
 - 6.2.1 Key market trends
 - 6.2.2 Key growth factors and opportunities
 - 6.2.3 Market size and forecast
- 6.3 Metals and alloys
 - 6.3.1 Key market trends
 - 6.3.2 Key growth factors and opportunities
 - 6.3.3 Market size and forecast
- 6.4 Ceramics
 - 6.4.1 Key market trends
 - 6.4.2 Key growth factors and opportunities
 - 6.4.3 Market size and forecast
- 6.5 Others
 - 6.5.1 Market size and forecast

CHAPTER 7 NORTH AMERICA 3D PRINTING SERVICE MARKET

- 7.1 Introduction
 - 7.1.1 Key market trends
 - 7.1.2 Key growth factors and opportunities
 - 7.1.3 Market size and forecast

CHAPTER 8 NORTH AMERICA 3D PRINTING MARKET, BY APPLICATION

- 8.1 North America 3D printing market by application

- 8.2 Consumer products
 - 8.2.1 Key growth factors and opportunities
 - 8.2.2 Market size and forecast
- 8.3 Industrial products
 - 8.3.1 Key growth factors and opportunities
 - 8.3.2 Market size and forecast
- 8.4 Defense
 - 8.4.1 Key growth factors and opportunities
 - 8.4.2 Market size and forecast
- 8.5 Aerospace
 - 8.5.1 Key growth factors and opportunities
 - 8.5.2 Market size and forecast
- 8.6 Automotive
 - 8.6.1 Key growth factors and opportunities
 - 8.6.2 Market size and forecast
- 8.7 Healthcare
 - 8.7.1 Key growth factors and opportunities
 - 8.7.2 Market size and forecast
- 8.8 Education and Research
 - 8.8.1 Key growth factors and opportunities
 - 8.8.2 Market size and forecast
- 8.9 Others
 - 8.9.1 Market size and forecast

CHAPTER 9 NORTH AMERICA 3D PRINTING MARKET, BY COUNTRY

- 9.1 U.S.
 - 9.1.1 Key market trends
 - 9.1.2 Competitive scenario
 - 9.1.3 Key growth factors and opportunities
 - 9.1.4 Market size & forecast
- 9.2 Canada
 - 9.2.1 Key market trends
 - 9.2.2 Competitive scenario
 - 9.2.3 Key growth factors and opportunities
 - 9.2.4 Market size & forecast
- 9.3 Mexico
 - 9.3.1 Key market trends
 - 9.3.2 Competitive scenario

9.3.3 Key growth factors and opportunities

9.3.4 Market size & forecast

CHAPTER 10 COMPANY PROFILES

10.1 3D Systems

10.1.1 Company overview

10.1.2 Business performance

10.1.3 Key strategies and developments

10.1.4 SWOT analysis of 3D Systems

10.2 Arcam AB

10.2.1 Company overview

10.2.2 Business performance

10.2.3 Key strategies and development

10.2.4 SWOT analysis of Arcam AB

10.3 Autodesk, Inc.

10.3.1 Company overview

10.3.2 Business performance

10.3.3 Key strategies and development

10.3.4 SWOT analysis of Autodesk Inc.

10.4 Stratasys Ltd

10.4.1 Company overview

10.4.2 Business performance

10.4.3 Key strategies and development

10.4.4 SWOT analysis of Stratasys Ltd

10.5 The ExOne Company

10.5.1 Company overview

10.5.2 Company snapshot

10.5.3 Business performance

10.5.4 Key strategies and developments

10.5.5 SWOT analysis of The ExOne Company

10.6 Optomec, Inc.

10.6.1 Company overview

10.6.2 Key strategies and developments

10.6.3 SWOT analysis of Optomec, Inc.

10.7 Organovo Holdings, Inc.

10.7.1 Company overview

10.7.2 Business performance

10.7.3 Key strategies and developments

10.7.4 SWOT analysis of Organovo Holdings, Inc.

10.8 Arevo Labs

10.8.1 Company overview

10.8.2 Business performance

10.8.3 Key strategies and development

10.8.4 SWOT analysis of Arevo Labs

10.9 EnvisionTEC

10.9.1 Company overview

10.9.2 Business performance

10.9.3 Key strategies and development

10.9.4 SWOT analysis of EnvisionTEC

10.10 E. I. duPont de Nemours and Company

10.10.1 Company overview

10.10.2 Business performance

10.10.3 Key strategies and development

10.10.4 SWOT analysis of E. I. duPont de Nemours and Company

List of Figures

List Of Tables

LIST OF TABLES

TABLE 1 NORTH AMERICA 3D PRINTING MARKET BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 2 NORTH AMERICA 3D PRINTING MARKET REVENUE, BY COMPONENT 2015-2022 (\$MILLION)

TABLE 3 NORTH AMERICA 3D PRINTING MARKET REVENUE, BY TECHNOLOGY 2015-2022 (\$MILLION)

TABLE 4 NORTH AMERICA STEREOLITHOGRAPHY 3D PRINTING TECHNOLOGY MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 5 NORTH AMERICA SELECTIVE LASER SINTERING 3D PRINTING TECHNOLOGY MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 6 NORTH AMERICA ELECTRON BEAM MELTING 3D PRINTING TECHNOLOGY MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 7 NORTH AMERICA FUSED DEPOSITION MODELING 3D PRINTING TECHNOLOGY MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 8 NORTH AMERICA LAMINATED OBJECT MANUFACTURING 3D PRINTING TECHNOLOGY MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 9 NORTH AMERICA OTHER 3D PRINTING TECHNOLOGY MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 10 NORTH AMERICA 3D PRINTING MATERIAL MARKET REVENUE, BY TYPE OF MATERIAL 2015-2022 (\$MILLION)

TABLE 11 NORTH AMERICA 3D PRINTING POLYMER MATERIAL MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 12 NORTH AMERICA 3D PRINTING METAL AND ALLOYS MATERIAL MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 13 COMPARISON OF CERAMIC, METAL, AND POLYMER PROPERTIES

TABLE 14 NORTH AMERICA 3D PRINTING CERAMIC MATERIAL MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 15 NORTH AMERICA 3D PRINTING OTHER MATERIAL MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 16 NORTH AMERICA 3D PRINTING SERVICE MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 17 NORTH AMERICA 3D PRINTING MARKET REVENUE BY APPLICATION, 2015-2022, \$MILLION

TABLE 18 NORTH AMERICA CONSUMER PRODUCT 3D PRINTING APPLICATION MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 19 NORTH AMERICA INDUSTRIAL 3D PRINTING APPLICATION MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 20 NORTH AMERICA DEFENSE 3D PRINTING APPLICATION MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 21 NORTH AMERICA AEROSPACE 3D PRINTING APPLICATION MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 22 NORTH AMERICA AUTOMOTIVE 3D PRINTING APPLICATION MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 23 NORTH AMERICA HEALTHCARE 3D PRINTING APPLICATION MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 24 NORTH AMERICA EDUCATION & RESEARCH 3D PRINTING APPLICATION MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 25 NORTH AMERICA OTHER 3D PRINTING APPLICATION MARKET REVENUE, BY COUNTRY, 2015-2022 (\$MILLION)

TABLE 26 U.S. 3D PRINTING MARKET REVENUE, BY APPLICATION, 2015-2022 (\$MILLION)

TABLE 27 CANADA 3D PRINTING MARKET REVENUE, BY APPLICATION, 2015-2022 (\$MILLION)

TABLE 28 MEXICO 3D PRINTING MARKET REVENUE, BY APPLICATION, 2015-2022 (\$MILLION)

TABLE 29 3D SYSTEMS COMPANY SNAPSHOT

TABLE 30 ARCAM COMPANY SNAPSHOT

TABLE 31 AUTODESK COMPANY SNAPSHOT

TABLE 32 STRATASYS LTD SNAPSHOT

TABLE 33 THE EXONE COMPANY SNAPSHOT

TABLE 34 OPTOMECH SNAPSHOT

TABLE 35 ORGANOVA SNAPSHOT

TABLE 36 AREVO LABS SNAPSHOT

TABLE 37 ENVISIONTEC SNAPSHOT

TABLE 38 E. I. DU PONT DE NEMOURS AND COMPANY SNAPSHOT

List Of Figures

LIST OF FIGURES

- FIG. 1 TOP FACTORS IMPACTING 3D PRINTING MARKET
- FIG. 2 DISTRIBUTION OF TOP WINNING STRATEGIES, 2010-2015 (%)
- FIG. 3 PORTERS FIVE FORCES ANALYSIS
- FIG. 4 VALUE CHAIN ANALYSIS OF 3D PRINTING MARKET
- FIG. 5 REVENUE GENERATED BY 3D SYSTEMS, INC. \$MILLION (2012-2014)
- FIG. 6 REVENUE OF 3D SYSTEMS, INC. BY BUSINESS SEGMENT (%), 2014
- FIG. 7 REVENUE OF 3D SYSTEMS, INC. BY GEOGRAPHY (%), 2014
- FIG. 8 SWOT ANALYSIS OF 3D SYSTEMS, INC.
- FIG. 9 REVENUE GENERATED BY ARCAM AB, \$MILLION (2012-2014)
- FIG. 10 SWOT ANALYSIS OF ARCAM AB
- FIG. 11 REVENUE GENERATED BY AUTODESK, INC., \$MILLION (2012-2014)
- FIG. 12 REVENUE OF AUTODESK, INC. BY BUSINESS SEGMENT (%), 2014
- FIG. 13 REVENUE OF AUTODESK, INC. BY GEOGRAPHY (%), 2014
- FIG. 14 SWOT ANALYSIS OF AUTODESK, INC.
- FIG. 15 REVENUE GENERATED BY STRATASYS LTD., \$MILLION (2012-2014)
- FIG. 16 REVENUE OF STRATASYS LTD. BY BUSINESS SEGMENT (%), 2014
- FIG. 17 REVENUE OF STRATASYS LTD. BY GEOGRAPHY (%), 2014
- FIG. 18 SWOT ANALYSIS OF STRATASYS LTD.
- FIG. 19 REVENUE GENERATED BY THE EXONE COMPANY, \$MILLION (2012-2014)
- FIG. 20 REVENUE THE EXONE COMPANY BY BUSINESS SEGMENT (%), 2014
- FIG. 21 REVENUE OF THE EXONE COMPANY BY GEOGRAPHY (%), 2014
- FIG. 22 SWOT ANALYSIS OF THE EXONE COMPANY
- FIG. 23 SWOT ANALYSIS OF OPTOMECH, INC.
- FIG. 24 REVENUE GENERATED BY ORGANOVO HOLDINGS, INC., \$MILLION (2012-2014)
- FIG. 25 REVENUE OF ORGANOVO HOLDING, INC. NY BUSINESS SEGMENT (%), 2014
- FIG. 26 SWOT ANALYSIS OF ORGANOVO HOLDINGS, INC.
- FIG. 27 SWOT ANALYSIS OF AREVO LABS
- FIG. 28 SWOT ANALYSIS OF ENVISIONTEC
- FIG. 29 REVENUE GENERATED BY E. I. DUPONT DE NEMOURS AND COMPANY, \$MILLION (2012-2014)
- FIG. 30 REVENUE OF E. I. DUPONT DE NEMOURS AND COMPANY BY BUSINESS SEGMENT (%), 2014
- FIG. 31 REVENUE OF E. I. DUPONT DE NEMOURS AND COMPANY BY

GEOGRAPHY (%), 2014

FIG. 32 SWOT ANALYSIS OF E. I. DUPONT DE NEMOURS AND COMPANY

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