

# Smart Polymers Market Analysis By Stimulus Type (Physical, Chemical, Biological), By Application (Biomedical & Biotechnology, Automotive, Textile, Electrical & Electronics, Textile, Nuclear Energy) And Segment Forecasts, 2014 - 2025

https://marketpublishers.com/r/S40B75BC9B9EN.html

Date: October 2016

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: S40B75BC9B9EN

## **Abstracts**

The global smart polymers market is expected to reach USD 20.02 billion by 2025, according to a new report by Grand View Research, Inc. Biomedical & biotechnology was the prominent segment and accounted for approximately 45.5% of the overall revenue in 2015. Smart polymers are used widely in the biomedical & biotechnology sector for drug delivery systems, tissue engineering, bioseparation, and biocatalyst.

Stimuli-responsive materials undergo various physicochemical changes when they respond to external stimuli such as temperature, pH, chemical ions, enzymes, sound, light, and other factors. Furthermore, these products are not only adaptive to the changes in surroundings but are also capable of regaining their original properties. The attributes mentioned above make smart polymers favorable for use in producing self-regulated drug delivery systems, tissue engineering systems, bioseparation devices, and reversible biocatalysts.

Further key findings from the report suggest:

The North America smart polymers industry was valued at USD 1.16 billion in 2015 and is expected to show high gains on account of technological advancement in the major end-use industries such as biotechnology, biomedical engineering, and medical & healthcare. This scenario is likely to be reflected in the U.S., which constituted 88.9% revenue in the North America region.



Europe held the second-largest share of the total market in 2015 accounting for 34.8% of the volume share. Healthcare & medical services, research & development in nanomedicine, and use of effective diagnostic devices are some of the key growth contributing trends in Europe region.

Strict environmental regulations governing the use of conventional polymers coupled with rising health awareness among consumers are a few of the socio-economic factors that are considered to impact the Europe healthcare and biomedical industry positively.

The industry is dominated by major participants including Advanced Polymer Materials Inc., BASF SE, Nippon Shokubai, Advanced Biopolymers AS, FMC Corporation, Autonomic Materials, Nexgenia Corporation, Covestro AG, Lubrizol Corporation, Sigma-Aldrich Corporation, and Acros Organics.

Prominent market participants such as Autonomic Materials, Inc. is engaged in manufacturing of smart polymeric materials that are capable of adapting and repairing themselves post any damage imposed by the external environment.



### **Contents**

#### CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Research Methodology
- 1.2. Research Scope & Assumptions
- 1.3. List of Data Sources
- 1.4. List of Abbreviations

#### **CHAPTER 2. EXECUTIVE SUMMARY**

2.1. Market Snapshot

#### CHAPTER 3. SMART POLYMERS MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market segmentation & scope
- 3.2. Penetration & growth prospect mapping
- 3.3. Value chain analysis
- 3.4. Raw material trend
- 3.5. Regulatory framework
- 3.6. Technology overview
- 3.7. Market dynamics
  - 3.7.1. Market driver analysis
  - 3.7.2. Market restraint analysis
- 3.8. Smart polymers market Porter's analysis
- 3.9. Smart polymers market PESTEL

# CHAPTER 4. SMART POLYMERS MARKET: STIMULUS TYPE ESTIMATES & TREND ANALYSIS

- 4.1. Stimulus type movement analysis & market share, 2015 & 2025
- 4.2. Physical stimuli-responsive
  - 4.2.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 4.2.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
- 4.3. Chemical stimuli-responsive
  - 4.3.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 4.3.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
- 4.4. Biological stimuli-responsive
  - 4.4.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)



- 4.4.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
- 4.5. Others
  - 4.5.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 4.5.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)

# CHAPTER 5. SMART POLYMERS MARKET: APPLICATION ESTIMATES & TREND ANALYSIS

- 5.1. Application movement analysis & market share, 2015 & 2025
- 5.2. Biomedical & Biotechnology
  - 5.2.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.2.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
  - 5.2.3. Drug Delivery
    - 5.2.3.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.2.3.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
  - 5.2.4. Tissue Engineering
    - 5.2.4.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
    - 5.2.4.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
  - 5.2.5. Bioseparation
    - 5.2.5.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
    - 5.2.5.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
  - 5.2.6. Biocatalyst
    - 5.2.6.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
    - 5.2.6.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
- 5.3. Automotive
  - 5.3.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.3.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
- 5.4. Electrical & Electronics
  - 5.4.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.4.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
- 5.5. Textile
  - 5.5.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.5.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
- 5.6. Nuclear Energy
  - 5.6.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.6.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
  - 5.6.3. Radiation Detection
    - 5.6.3.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.6.3.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)



- 5.6.4. Waste Management
  - 5.6.4.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.6.4.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)
- 5.7. Others
  - 5.7.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
  - 5.7.2. Market estimates and forecast, by region, 2014 2025 (Tons) (USD Million)

# CHAPTER 6. SMART POLYMERS MARKET: REGIONAL ESTIMATES & TREND ANALYSIS

- 6.1. Regional movement analysis & market share, 2015 & 2025
- 6.2. North America
  - 6.2.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.2.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
  - 6.2.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
  - 6.2.4. U.S.
    - 6.2.4.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.2.4.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
- 6.2.4.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
- 6.3. Europe
- 6.3.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.3.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
  - 6.3.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
  - 6.3.4. Germany
    - 6.3.4.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.3.4.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
- 6.3.4.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
  - 6.3.5. UK
    - 6.3.5.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.3.5.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
- 6.3.5.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)



- 6.3.6. France
  - 6.3.6.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.3.6.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
- 6.3.6.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
- 6.4. Asia Pacific
  - 6.4.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.4.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
  - 6.4.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
  - 6.4.4. China
    - 6.4.4.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.4.4.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
- 6.4.4.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
  - 6.4.5. Japan
    - 6.4.5.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.4.5.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
- 6.4.5.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
  - 6.4.6. India
    - 6.4.6.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.4.6.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
- 6.4.6.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)
- 6.5. RoW
  - 6.5.1. Market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 6.5.2. Market estimates and forecast, by stimulus type, 2014 2025 (Tons) (USD Million)
  - 6.5.3. Market estimates and forecast, by application, 2014 2025 (Tons) (USD Million)

#### **CHAPTER 7. COMPETITIVE LANDSCAPE**

- 7.1. Company landscape analysis, 2015
- 7.2. Competitive environment



- 7.3. Vendor landscape
- 7.4. Company market positioning
- 7.5. Strategy framework

#### **CHAPTER 8. COMPANY PROFILES**

- 8.1. BASF SE
  - 8.1.1. Company Overview
  - 8.1.2. Financial Performance
  - 8.1.3. Product Benchmarking
  - 8.1.4. Strategic Initiatives
- 8.2. Nippon Shokubai
  - 8.2.1. Company Overview
  - 8.2.2. Financial Performance
  - 8.2.3. Product Benchmarking
  - 8.2.4. Strategic Initiatives
- 8.3. Advanced Biopolymers AS
  - 8.3.1. Company Overview
  - 8.3.2. Financial Performance
  - 8.3.3. Product Benchmarking
  - 8.3.4. Strategic Initiatives
- 8.4. FMC Corporation
  - 8.4.1. Company Overview
  - 8.4.2. Financial Performance
  - 8.4.3. Product Benchmarking
  - 8.4.4. Strategic Initiatives
- 8.5. Autonomic Materials, Inc.
  - 8.5.1. Company Overview
  - 8.5.2. Financial Performance
  - 8.5.3. Product Benchmarking
  - 8.5.4. Strategic Initiatives
- 8.6. Advanced Polymer Materials Inc.
  - 8.6.1. Company Overview
  - 8.6.2. Financial Performance
  - 8.6.3. Product Benchmarking
  - 8.6.4. Strategic Initiatives
- 8.7. Nexgenia Corporation
  - 8.7.1. Company Overview
  - 8.7.2. Financial Performance



- 8.7.3. Product Benchmarking
- 8.7.4. Strategic Initiatives
- 8.8. Covestro AG
  - 8.8.1. Company Overview
  - 8.8.2. Financial Performance
  - 8.8.3. Product Benchmarking
  - 8.8.4. Strategic Initiatives
- 8.9. Lubrizol Corporation
  - 8.9.1. Company Overview
  - 8.9.2. Financial Performance
  - 8.9.3. Product Benchmarking
  - 8.9.4. Strategic Initiatives
- 8.10. Sigma-Aldrich Corporation
  - 8.10.1. Company Overview
  - 8.10.2. Financial Performance
  - 8.10.3. Product Benchmarking
  - 8.10.4. Strategic Initiatives
- 8.11. Acros Organics
  - 8.11.1. Company Overview
  - 8.11.2. Financial Performance
  - 8.11.3. Product Benchmarking
  - 8.11.4. Strategic Initiatives



## **List Of Tables**

#### LIST OF TABLES

- 1. Smart polymers Market driver analysis
- 2. Smart polymers Market restraint analysis
- 3. Global physical stimuli-responsive polymers market, 2014 2025 (Tons) (USD Million)
- 4. Global physical stimuli-responsive polymers market, 2014 2025 (Tons) (USD Million)
- 5. Global physical stimuli-responsive polymers market, 2014 2025 (Tons) (USD Million)
- 6. Global other smart polymers market, 2014 2025 (Tons) (USD Million)
- 7. Global smart polymers market for biomedical & biotechnology, 2014 2025 (Tons) (USD Million)
- 8. Global smart polymers market for drug delivery, 2014 2025 (Tons) (USD Million)
- 9. Global smart polymers market for tissue engineering, 2014 2025 (Tons) (USD Million)
- 10. Global smart polymers market for bioseparation, 2014 2025 (Tons) (USD Million)
- 11. Global smart polymers market for biocatalyst, 2014 2025 (Tons) (USD Million)
- 12. Global smart polymers market for automotive, 2014 2025 (Tons) (USD Million)
- 13. Global smart polymers market for electrical & electronics, 2014 2025 (Tons) (USD Million)
- 14. Global smart polymers market for textile, 2014 2025 (Tons) (USD Million)
- 15. Global smart polymers market for nuclear energy, 2014 2025 (Tons) (USD Million)
- 16. Global smart polymers market for radiation detection, 2014 2025 (Tons) (USD Million)
- 17. Global smart polymers market for waste treatment, 2014 2025 (Tons) (USD Million)
- 18. Global smart polymers market for other applications, 2014 2025 (Tons) (USD Million)
- 19. North America smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 20. North America smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 21. North America smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 22. North America smart polymers market volume, by application, 2014 2025 (Tons)
- 23. North America smart polymers market revenue, by application, 2014 2025 (USD Million)



- 24. North America smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 25. North America smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 26. North America smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 27. North America smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 28. U.S. smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 29. U.S. smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 30. U.S. smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 31. U.S. smart polymers market volume, by application, 2014 2025 (Tons)
- 32. U.S. smart polymers market revenue, by application, 2014 2025 (USD Million)
- 33. U.S. smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 34. U.S. smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 35. U.S. smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 36. U.S. smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 37. Europe smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 38. Europe smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 39. Europe smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 40. Europe smart polymers market volume, by application, 2014 2025 (Tons)
- 41. Europe smart polymers market revenue, by application, 2014 2025 (USD Million)
- 42. Europe smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 43. Europe smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 44. Europe smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 45. Europe smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 46. Germany smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)



- 47. Germany smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 48. Germany smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 49. Germany smart polymers market volume, by application, 2014 2025 (Tons)
- 50. Germany smart polymers market revenue, by application, 2014 2025 (USD Million)
- 51. Germany smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 52. Germany smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 53. Germany smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 54. Germany smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 55. UK smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 56. UK smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 57. UK smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 58. UK smart polymers market volume, by application, 2014 2025 (Tons)
- 59. UK smart polymers market revenue, by application, 2014 2025 (USD Million)
- 60. UK smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 61. UK smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 62. UK smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 63. UK smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 64. France smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 65. France smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 66. France smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 67. France smart polymers market volume, by application, 2014 2025 (Tons)
- 68. France smart polymers market revenue, by application, 2014 2025 (USD Million)
- 69. France smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 70. France smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 71. France smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)



- 72. France smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 73. Asia Pacific smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 74. Asia Pacific smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 75. Asia Pacific smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 76. Asia Pacific smart polymers market volume, by application, 2014 2025 (Tons)
- 77. Asia Pacific smart polymers market revenue, by application, 2014 2025 (USD Million)
- 78. Asia Pacific smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 79. Asia Pacific smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 80. Asia Pacific smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 81. Asia Pacific smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 82. China smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 83. China smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 84. China smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 85. China smart polymers market volume, by application, 2014 2025 (Tons)
- 86. China smart polymers market revenue, by application, 2014 2025 (USD Million)
- 87. China smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 88. China smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 89. China smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 90. China smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 91. Japan smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 92. Japan smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 93. Japan smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 94. Japan smart polymers market volume, by application, 2014 2025 (Tons)
- 95. Japan smart polymers market revenue, by application, 2014 2025 (USD Million)
- 96. Japan smart polymers market volume in biomedical & biotechnology, by application,



- 2014 2025 (Tons)
- 97. Japan smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 98. Japan smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 99. Japan smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 100. India smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 101. India smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 102. India smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 103. India smart polymers market volume, by application, 2014 2025 (Tons)
- 104. India smart polymers market revenue, by application, 2014 2025 (USD Million)
- 105. India smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 106. India smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 107. India smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 108. India smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 109. RoW smart polymers market estimates and forecast, 2014 2025 (Tons) (USD Million)
- 110. RoW smart polymers market volume, by stimulus type, 2014 2025 (Tons)
- 111. RoW smart polymers market revenue, by stimulus type, 2014 2025 (USD Million)
- 112. RoW smart polymers market volume, by application, 2014 2025 (Tons)
- 113. RoW smart polymers market revenue, by application, 2014 2025 (USD Million)
- 114. RoW smart polymers market volume in biomedical & biotechnology, by application, 2014 2025 (Tons)
- 115. RoW smart polymers market revenue in biomedical & biotechnology, by application, 2014 2025 (USD Million)
- 116. RoW smart polymers market volume in nuclear energy, by application, 2014 2025 (Tons)
- 117. RoW smart polymers market revenue in nuclear energy, by application, 2014 2025 (USD Million)
- 118. Global smart polymers market vendor landscape



# **List Of Figures**

#### LIST OF FIGURES

- 1. Market snapshot
- 2. Market segmentation & scope
- 3. Market penetration & growth prospect mapping
- 4. Value chain analysis
- 5. Global raw material price trend, 2014 2025 (USD/kg)
- 6. Market dynamics
- 7. Global smart textile market, 2014 2025 (USD Billion)
- 8. Global biotechnology industry, 2014 2025 (USD Billion)
- 9. Porter's analysis
- 10. PESTEL analysis
- 11. Stimulus type outlook, 2015 & 2025
- 12. Application outlook, 2015 & 2025
- 13. Regional market place: Key takeaways
- 14. Regional outlook, 2015 & 2025
- 15. Strategy mapping of key market players



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