

## Global Biomaterials Market – Analysis By Type (Metal, Ceramic, Polymer), By Application (Orthopedic, Cardiovascular, Plastic Surgery, Wound Care), By Region, By Country (2018 Edition): Forecast to 2023

- By Material Type - Metal, Ceramic, Polymer
- By Application Type - Orthopedic, Cardiovascular, Plastic Surgery, Wound Care
- By Region-North America, Europe, APAC
- By Country- US, Canada, Mexico, Germany, UK, Spain, France, Italy, India, China, Japan



# Scope of the Report – Biomaterials Market



			2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	
Global , Regional, Country Analysis	Market (By Value)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	By Material Type, By Value	Polymer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Metal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Ceramic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	By Application Type, By Value	Orthopedic	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Cardiovascular	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Plastic surgery	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Wound Care	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		Others	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Company Analysis	Evonik Industries, Bayer Healthcare AG, Zimmer Biomet Holdings Inc. , Wright Medical Group., Koninklijke DSM N.V.												
Regional Analysis	North America, Europe, APAC,ROW													
Country Analysis	United States, Canada, Mexico,Germany, United KIngdom, Spain, France, Italy, India ,China, Japan													

# Table of Content

S.No	Particulars	Page No.
1.	Research Methodology	27
2.	Executive Summary	28
3.	Strategic Recommendation	29
3.1	Focus on APAC Region	30
3.2	Focus on Plastic Surgery Biomaterials	31
4.	Biomaterials Outlook	32
5.	Global Biomaterials Market : Growth and Forecast	41
5.1	Global Biomaterials Market, By Value (2013-2017) (USD Billion)	42
5.2	Global Biomaterials Market, By Value (2018-2023) (USD Billion)	43
6.	Global Biomaterials Market : Segment Analysis	49

# Table of Content

S.No	Particulars	Page No.
6.1	Global Ceramic Biomaterials Market, By Value (2013-2023) (USD Billion)	51
6.2	Global Polymer Biomaterials Market, By Value (2013-2023) (USD Billion)	53
6.3	Global Metal Biomaterials Market, By Value (2013-2023) (USD Billion)	56
6.4	Global Ceramic Biomaterial Market, By Value, 2013-2023 (USD Billion)	59
7.	Global Biomaterials Market : segment Analysis	62
7.1	Global Biomaterials Market, By Application, By Value (2013-2017) (USD Billion)	63
7.2	Global Biomaterials Market, By Application, By Value (2018-2023) (USD Billion)	64
8.	Global Biomaterials Market : segment Analysis (By Application)	65
8.1	Global Orthopaedic Biomaterials Market, By Application, By Value(2013-2023) (USD Billion)	67
8.2	Global Cardiovascular Biomaterials Market, By Application, By Value (2013-2023) (USD Billion)	72
8.3	Global Plastic Surgery Biomaterials Market, By Application, By Value (2013-2023) (USD Billion)	76
8.4	Global Wound Care Biomaterials Market, By Application, By Value (2013-2023) (USD Billion)	80
8.5	Global Others Biomaterials Market, By Application, By Value (2013-2023) (USD Billion)	83

# Table of Content

S.No	Particulars	Page No.
9.	Global Biomaterials Market : Regional Analysis	85
9.1	Global Biomaterials Market Size, By Region : Breakdown (%)	86
9.1.1	Global Biomaterials Market Size, By Region,2017 (%)	86
9.2.1	Global Biomaterials Market Size, By Region,2023 (%)	87
10.	North America Biomaterials Market : Growth and Forecast	88
10.1	North America Biomaterials Market, By Value (2013-2017) (USD Billion)	89
10.2	North America Biomaterials Market, By Value (2013-2017) (USD Billion)	90
11.	North America Biomaterials Market : Segment Analysis	93
11.1	North America Polymer Biomaterials Market, By Value (2013-2023) (USD Billion)	95
11.2	North America Metal Biomaterials Market, By Value (2013-2023) (USD Billion)	97
11.3	North America Ceramic Biomaterials Market, By Value (2013-2023) (USD Billion)	100
12.	North America Biomaterials Market : Segment Analysis (By Application)	103

# Table of Content

S.No	Particulars	Page No.
12.1	North America Biomaterials Market, By Application, By Value (2013-2017) (In Billions)	104
12.2	North America Biomaterials Market, By Application, By Value (2018-2023) (In Billions)	105
13.	U.S Biomaterials Market : Growth and Forecast	108
13.1	U.S Biomaterials Market, By Value (2013-2023)	109
13.2	U.S Biomaterials Market, By Segment, By Value (2013-2023)	110
13.3	U.S Biomaterials Market, By Application, By Value (2013-2017)	117
13.4	U.S Biomaterials Market, By Application, By Value (2018-2023)	118
14.	Canada Biomaterials Market : Growth and Forecast	119
14.1	Canada Biomaterials Market, By Value (2013-2023)	120
14.2	Canada Biomaterials Market, By Segment, By Value (2013-2023)	122
14.3	Canada Biomaterials Market, By Application, By Value (2013-2017)	126

# Table of Content

S.No	Particulars	Page No.
14.4	Canada Biomaterials Market, By Application, By Value (2018-2023)	128
15.	Mexico Biomaterials Market : Growth and Forecast	129
15.1	Mexico Biomaterials Market, By Value (2013-2023)	130
15.2	Mexico Biomaterials Market, By Segment, By Value (2013-2023)	132
15.3	Mexico Biomaterials Market, By Application, By Value (2013-2017)	137
15.4	Mexico Biomaterials Market, By Application, By Value (2018-2023)	138
16.	Europe Biomaterials Market : Growth and Forecast	139
16.1	Europe Biomaterials Market, By Value (2013-2017) (USD Billion)	140
16.2	Europe Biomaterials Market, By Value (2013-2017) (USD Billion)	141
17.	Europe Biomaterials Market : Segment Analysis	145
17.1	Europe Polymer Biomaterials Market, By Value (2013-2023) (USD Billion)	147
17.2	Europe Metal Biomaterials Market, By Value (2013-2023) (USD Billion)	150
17.3	Europe Ceramic Biomaterials Market, By Value (2013-2023) (USD Billion)	153

# Table of Content

S.No	Particulars	Page No.
18.	Europe Biomaterials Market : Segment Analysis (By Application)	155
18.1	Europe Biomaterials Market, By Application, By Value (2013-2017) (In Billions)	156
18.2	Europe Biomaterials Market, By Application, By Value (2018-2023) (In Billions)	157
19.	Germany Biomaterials Market : Growth and Forecast	162
19.1	Germany Biomaterials Market, By Value (2013-2023)	163
19.2	Germany Biomaterials Market, By Segment, By Value (2013-2023)	168
19.3	Germany Biomaterials Market, By Application, By Value (2013-2017)	173
19.4	Germany Biomaterials Market, By Application, By Value (2018-2023)	174
20.	U.K Biomaterials Market : Growth and Forecast	175
20.1	U.K Biomaterials Market, By Value (2013-2023)	176
20.2	U.K Biomaterials Market, By Segment, By Value (2013-2023)	179
20.3	U.K Biomaterials Market, By Application, By Value (2013-2017)	183
20.4	U.K Biomaterials Market, By Application, By Value (2018-2023)	184



# Table of Content

S.No	Particulars	Page No.
21.	France Biomaterials Market : Growth and Forecast	185
21.1	France Biomaterials Market, By Value (2013-2023)	186
21.2	France Biomaterials Market, By Segment, By Value (2013-2023)	189
21.3	France Biomaterials Market, By Application, By Value (2013-2017)	194
21.4	France Biomaterials Market, By Application, By Value (2018-2023)	195
22.	Italy Biomaterials Market : Growth and Forecast	196
22.1	Italy Biomaterials Market, By Value (2013-2023)	197
22.2	Italy Biomaterials Market, By Segment, By Value (2013-2023)	199
22.3	Italy Biomaterials Market, By Application, By Value (2013-2017)	203
22.4	Italy Biomaterials Market, By Application, By Value (2018-2023)	204
23.	Spain Biomaterials Market : Growth and Forecast	205

# Table of Content

S.No	Particulars	Page No.
23.1	Spain Biomaterials Market, By Value (2013-2023)	206
23.2	Spain Biomaterials Market, By Segment, By Value (2013-2023)	208
23.3	Spain Biomaterials Market, By Application, By Value (2013-2017)	211
23.4	Spain Biomaterials Market, By Application, By Value (2018-2023)	212
24.	Rest of Europe Biomaterials Market : Growth and Forecast	213
24.1	Rest of Europe Biomaterials Market, By Value (2013-2023)	214
24.2	Rest of Europe Biomaterials Market, By Segment, By Value (2013-2023)	216
24.3	Rest of Europe Biomaterials Market, By Application, By Value (2013-2017)	220
24.4	Rest of Europe Biomaterials Market, By Application, By Value (2018-2023)	221
25.	APAC Biomaterials Market : Growth and Forecast	222
25.1	APAC Biomaterials Market, By Value (2013-2017) (USD Billion)	223

# Table of Content

S.No	Particulars	Page No.
25.2	APAC Biomaterials Market, By Value (2018-2023) (In Billions)	224
26.	APAC Biomaterials Market : Segment Analysis	228
26.1	APAC Polymer Biomaterials Market, By Value (2013-2023) (USD Billion)	230
26.2	APAC Metal Biomaterials Market, By Value (2013-2023) (USD Billion)	233
26.3	APAC Ceramic Biomaterials Market, By Value (2013-2023) (USD Billion)	235
27.	China Biomaterials Market : Growth and Forecast	240
27.1	China Biomaterials Market, By Value (2013-2023)	241
27.2	China Biomaterials Market, By Segment, By Value (2013-2023)	244
27.3	China Biomaterials Market, By Application, By Value (2013-2017)	250
27.4	China Biomaterials Market, By Application, By Value (2018-2023)	251
28.	Japan Biomaterials Market : Growth and Forecast	252

# Table of Content

S.No	Particulars	Page No.
28.1	Japan Biomaterials Market, By Value (2013-2023)	253
28.2	Japan Biomaterials Market, By Segment, By Value (2013-2023)	257
28.3	Japan Biomaterials Market, By Application, By Value (2013-2017)	261
28.4	Japan Biomaterials Market, By Application, By Value (2018-2023)	262
29.	India Biomaterials Market : Growth and Forecast	263
29.1	India Biomaterials Market, By Value (2013-2023)	264
29.2	India Biomaterials Market, By Segment, By Value (2013-2023)	266
29.3	India Biomaterials Market, By Application, By Value (2013-2017)	270
29.4	India Biomaterials Market, By Application, By Value (2018-2023)	271
30.	Policy and Regulatory Landscape	283
31.	Company Profiling	297

# Table of Content

S.No	Particulars	Page No.
31.1	Evonik Industries	298
31.2	Bayer Healthcare AG	300
31.3	Zimmer Biomet Holdings, Inc	302
31.4	Wright Medical Group	304
31.5	Koninklijke DSM, N.V	306

# List of Figures

Figure No.	Figure Title	Page No.
Figure 1:	Global Biomaterials Market Size, By Value, 2013-2017 (USD Billion)	42
Figure 2:	Global Biomaterials Market Size, By Value, Forecast, 2018-2023 (USD Billion)	43
Figure 3:	Global Population aged 65 and above (2012-2016), (% of total Population)	44
Figure 4:	Healthcare expenditure per Capita, 2012-2016 (USD)	46
Figure 5:	Causes of premature (under age 70) NCD mortality, 2016 (%)	47
Figure 6:	Global Cases of Diabetes (Million)	47
Figure 7:	Global Diabetic Population, By Region, 2015	47
Figure 8:	Number of Diabetes Patient present in top 10 countries (in millions)	48
Figure 9:	Global Biomaterial Market Size, By Segments, 2017 (%)	51
Figure 10:	Global Biomaterials Market Size, By Segments, 2023 (%)	52
Figure 11:	Global Polymer Biomaterial Market, By Value, 2013-2016 (USD Billion)	54
Figure 12:	Global Polymer Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	54
Figure 13:	Global Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	57
Figure 14:	Global Metal Biomaterial Market, By Value, Forecast, 2018-2023 (USD Billion)	57
Figure 15:	Global Ceramic Biomaterial Market, By Value, 2012-2016 (USD Billion)	60
Figure 16:	Global Ceramic Biomaterial Market, By Value, Forecast, 2017-2022 (USD Billion)	60
Figure 17:	Population ages 65 and above, By Select Region, 2012-2016 (% of total)	61
Figure 18:	Global Biomaterial Market Size, By Application , 2017 (%)	63
Figure 19:	Global Biomaterials Market Size, By Application, 2023 (%)	64
Figure 20:	Global Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	65

# List of Figures

Figure No.	Figure Title	Page No.
Figure 21:	Global Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	66
Figure 22:	Global Orthopaedic Biomaterial Market, By Value, 2013-2017 (USD Billion)	68
Figure 23:	Global Global Orthopaedic Biomaterial Market, By Value, Forecast, 2018-2023 (USD Billion)	68
Figure 24:	Number and distribution of persons aged 60 years or over by region, in 2017 and 2050 (Millions)	70
Figure 25:	Population aged 65 and above , By Select Countries (% of total Population), (2011-2014)	71
Figure 26:	Global Cardiovascular Biomaterial Market, By Value, 2013-2017 (USD Billion)	73
Figure 27:	Global Cardiovascular Biomaterial Market, By Value, Forecast, 2018-2023 (USD Billion)	73
Figure 28:	Prevalence of diagnosed cardiovascular conditions, By Select Countries, 2017(%)	74
Figure 29:	Prevalence of diagnosed cardiovascular conditions, By Select Countries, By Gender 2014(%)	74
Figure 30:	Global Plastic Surgery Biomaterial Market, By Value, 2013-2017 (USD Billion)	77
Figure 31:	Global Plastic Surgery Biomaterial Market, By Value, Forecast, 2018-2023 (USD Billion)	77
Figure 32:	Total Number of Cosmetic Procedures, 2017	78
Figure 33:	Cosmetic procedures worldwide in percentage 2017	78
Figure 34:	Global Wound Care Biomaterial Market, By Value, 2013-2017 (USD Billion)	81
Figure 35:	Global Wound Care Biomaterial Market, By Value, Forecast, 2018-2023 (USD Billion)	81
Figure 36:	Global Other Biomaterial Market, By Value, 2013-2017 (USD Billion)	84
Figure 37:	Global Other Biomaterial Market, By Value, Forecast, 2018-2023 (USD Billion)	84
Figure 38:	Global Biomaterials Market Size, By Region, 2017 (%)	86
Figure 39:	Global Biomaterials Market Size, By Region, 2023 (%)	87
Figure 40:	North America Biomaterial Market Size, By Value, 2013-2017 (USD Billion)	89

# List of Figures

Figure No.	Figure Title	Page No.
Figure 41:	North America Biomaterial Market Size, By Value, Forecast, 2018-2023 (USD Billion)	90
Figure 42:	North America Health Spending, 2015-16 (USD)	91
Figure 43:	North America GDP, 2012-2016 (USD Trillion)	91
Figure 44:	North America Population Ages 65 and above, 2012-2016 (in million)	92
Figure 45:	North America Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	95
Figure 46:	North America Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	95
Figure 47:	North America Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	98
Figure 48:	North America Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	98
Figure 49:	Estimated number of Adult Population with doctor diagnosed arthritis.	99
Figure 50:	North America Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	101
Figure 51:	North America Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	101
Figure 52:	North America Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	104
Figure 53:	North America Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	105
Figure 54:	U.S. Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	109
Figure 55:	U.S Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	111
Figure 56:	U.S Polymer Biomaterial , By Value, Forecast, 2018-2023 (USD Billion)	111
Figure 57:	U.S Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	113
Figure 58:	U.S Metal Biomaterial , By Value, Forecast, 2018-2023 (USD Billion)	113
Figure 59:	Estimated number of Adult Population with doctor diagnosed arthritis.	114
Figure 60:	U.S Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	115



# List of Figures

Figure No.		Page No.
Figure 61:	U.S Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	115
Figure 62:	U.S, Per Capita Healthcare Expenditure, 2012-2016 (USD)	116
Figure 63:	U.S, Population ages 65 and above, 2012-2016 (% of total)	116
Figure 64:	U.S Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	117
Figure 65:	U.S Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	118
Figure 66:	Canada Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	120
Figure 67:	Canada Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	122
Figure 68:	Canada Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	122
Figure 69:	Canada Metal Biomaterial Market, By Value, 2013-2016 (USD Billion)	123
Figure 70:	Canada Metal Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	123
Figure 71:	Percentage of orthopaedic surgeries in Canada, By Gender, 2017	124
Figure 72:	Number of orthopaedic surgeries in Canada by Number & Age, 2017	124
Figure 73:	Canada Ceramic Biomaterial Market, By Value, 2013-2016 (USD Billion)	125
Figure 74:	Canada Ceramic Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	125
Figure 75:	Canada Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	126
Figure 76:	Canada, Per Capita Healthcare Expenditure, 2012-2016 (USD)	127
Figure 77:	Canada, Population ages 65 and above, 2012-2016 (% of total)	127
Figure 78:	Canada Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	128
Figure 79:	Mexico Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	130
Figure 80:	Mexico Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	133

# List of Figures

Figure No.	Figure Title	Page No.
Figure 81:	Mexico Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	133
Figure 82:	Number of Cosmetic Surgeries Conducted in Mexico - 2016	134
Figure 83:	Mexico Metal Biomaterial Market, By Value, 2013-2016 (USD Billion)	135
Figure 84:	Mexico Metal Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	135
Figure 85:	Mexico Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	136
Figure 86:	Mexico Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	136
Figure 87:	Mexico Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	137
Figure 88:	Mexico Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	138
Figure 89:	Europe Biomaterial Market Size, By Value, 2013-2017 (USD Billion)	140
Figure 90:	Europe Biomaterial Market Size, By Value, Forecast, 2018-2023 (USD Billion)	141
Figure 91:	Per Capita Health Expenditure, By Select Country, 2016 (USD)	142
Figure 92:	European Union, Population ages 65 and above, 2012-2016 (% of total)	142
Figure 93:	Deaths By Causes in Europe, Males, 2017 (%)	144
Figure 94:	Deaths By Causes in Europe, Females, 2017 (%)	144
Figure 95:	Europe Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	147
Figure 96:	Europe Polymer Biomaterial , By Value, Forecast, 2018-2023 (USD Billion)	147
Figure 97:	Europe Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	150
Figure 98:	Europe Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	150
Figure 99:	European Union, Population ages 65 and above, 2012-2016 (% of total)	151
Figure 100:	Europe Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	153

# List of Figures

Figure No.	Figure Title	Page No.
Figure 101:	Europe Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	153
Figure 102:	Europe Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	156
Figure 103:	Europe Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	157
Figure 104:	Total Healthcare Expenditure, By Select Countries, 2014 (% of GDP)	160
Figure 105:	Europe Population Ages 65 and above, By Select Countries, 2015 (% of Total)	160
Figure 106:	Germany Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	163
Figure 107:	Germany, Population ages 65 and above, 2012-2016 (% of total)	164
Figure 108:	Number of Cases of CVD in Germany among Males (1990-2015)	165
Figure 109:	Number of Cases of CVD in Germany among Females(1990-2015)	165
Figure 110:	Germany, Population ages 65 and above, 2012-2016 (% total)	166
Figure 111:	Germany, International Tourism, Number of Arrivals, 2012-2016 (In million)	166
Figure 112:	Germany Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	168
Figure 113:	Germany Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	168
Figure 114:	Top 10 countries for total healthcare expenditure on diabetes in 2017(20-79) (in billions)	168
Figure 115:	Number of Diabetes Patient present in top 10 countries (in millions)	170
Figure 116:	Germany Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	171
Figure 117:	Germany Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	171
Figure 118:	Germany Ceramic Biomaterial Market, By Value, 2013-2016 (USD Billion)	172
Figure 119:	Germany Ceramic Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	172
Figure 120:	Germany Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	173

# List of Figures

Figure No.	Figure Title	Page No.
Figure 121:	Germany Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	174
Figure 122:	U.K Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	176
Figure 123:	% of death By Cause among women in U.K (number of deaths : 292,587)	177
Figure 124:	% of death By Cause among Men in U.K (number of deaths : 292,587)	177
Figure 125:	U.K Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	179
Figure 126:	U.K Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	179
Figure 127:	U.K Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	180
Figure 128:	U.K Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	180
Figure 129:	U.K Ceramic Biomaterial Market, By Value, 2013-2016 (USD Billion)	181
Figure 130:	U.K Ceramic Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	181
Figure 131:	U.K, Per Capita Health Expenditure, 2012-2016 (USD)	182
Figure 132:	U.K, Health Expenditure, Share of GDP, 2012-2016 (In %)	182
Figure 133:	U.K Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	183
Figure 134:	U.K Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	184
Figure 135:	France Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	186
Figure 136:	% of death By Cause among women in France (number of deaths : 277,141)	187
Figure 137:	% of death By Cause among Men in France (number of deaths : 282,485)	187
Figure 138:	France Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	189
Figure 139:	France Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	189
Figure 140:	France Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	190

# List of Figures

Figure No.	Figure Title	Page No.
Figure 141:	France Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	190
Figure 142:	France Ceramic Biomaterial Market, By Value, 2013-2016 (USD Billion)	191
Figure 143:	France Ceramic Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	191
Figure 144:	France, Per Capita Health Expenditure, 2012-2016 (USD)	192
Figure 145:	France, Health Expenditure, Share of GDP, 2012-2016 (In %)	192
Figure 146:	France, Population ages 65 and above, 2012-2016 (% of total)	193
Figure 147:	France Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	194
Figure 148:	France Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	195
Figure 149:	Italy Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	197
Figure 150:	Italy Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	199
Figure 151:	Italy Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	199
Figure 152:	Italy Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	200
Figure 153:	Italy Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	200
Figure 154:	Italy Ceramic Biomaterial Market, By Value, 2013-2016 (USD Billion)	201
Figure 155:	Italy Ceramic Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	201
Figure 156:	Italy, Population ages 65 and above, 2012-2016 (% of total)	202
Figure 157:	Italy Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	203
Figure 158:	Italy Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	204
Figure 159:	Spain Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	206
Figure 160:	Spain Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	208

# List of Figures

Figure No.	Figure Title	Page No.
Figure 161:	Spain Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	208
Figure 162:	Spain Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	209
Figure 163:	Spain Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	209
Figure 164:	Spain Ceramic Biomaterial Market, By Value, 2013-2016 (USD Billion)	210
Figure 165:	Spain Ceramic Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	210
Figure 166:	Spain Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	211
Figure 167:	Spain Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	212
Figure 168:	Spain Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	214
Figure 169:	Rest of Europe Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	216
Figure 170:	Rest of Europe Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	216
Figure 171:	Rest of Europe Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	217
Figure 172:	Rest of Europe Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	217
Figure 173:	Rest of Europe Ceramic Biomaterial Market, By Value, 2013-2016 (USD Billion)	219
Figure 174:	Rest of Europe Ceramic Biomaterial , By Value, Forecast, 2017-2023(USD Billion)	219
Figure 175:	Rest of Europe Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	220
Figure 176:	Rest of Europe Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	221
Figure 177:	APAC Biomaterials Size, By Value, 2013-2017 (USD Billion)	223
Figure 178:	APAC Biomaterials Market Size, By Value, Forecast, 2018-2023(USD Billion)	224
Figure 179:	Number of Diabetes Worldwide per region in 2017 and 2045 (20-79 years), in millions	225
Figure 180:	Population ages 65 and above, APAC Region, By Select Countries, 2016 (% of total)	

# List of Figures

Figure No.	Figure Title	Page No.
Figure 181:	Population ages 65 and above, APAC Region, By Select Countries, 2050 (% of total)	227
Figure 182:	APAC Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	230
Figure 183:	APAC Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	230
Figure 184:	APAC Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	233
Figure 185:	APAC Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	233
Figure 186:	APAC Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	235
Figure 187:	APAC Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	235
Figure 188:	APAC Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	237
Figure 189:	APAC Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	238
Figure 190:	China Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	241
Figure 191:	China, Population ages 65 and above, 2012-2016 (% of total)	242
Figure 192:	China Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	244
Figure 193:	China Polymer Biomaterial, By Value, Forecast, 2018-2023(USD Billion)	244
Figure 194:	Top 10 countries - Total Healthcare Expenditure on Diabetes in 2017(Aged 20-79) (USD Billions)	246
Figure 195:	Number of Diabetes Patient Present in Top 10 countries (in millions)	247
Figure 196:	China Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	248
Figure 197:	China Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	248
Figure 198:	China Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	249
Figure 199:	China Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	249
Figure 200:	China Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	250

# List of Figures

Figure No.	Figure Title	Page No.
Figure 201:	China Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	251
Figure 202:	Japan Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	253
Figure 203:	Japan, Population ages 65 and above, 2012-2016 (% of total)	254
Figure 204:	Overseas Residents' Visits to Japan, 2012-2016	255
Figure 205:	Foreign Visitors to Japan by Regional Nationality, 2016	255
Figure 206:	Japan Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	257
Figure 207:	Japan Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	257
Figure 208:	Japan Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	259
Figure 209:	Japan Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	259
Figure 210:	Japan Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	260
Figure 211:	Japan Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	260
Figure 212:	Japan Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	261
Figure 213:	Japan Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	262
Figure 214:	India Biomaterial Market Size, By Value, 2013-2023 (USD Billion)	264
Figure 215:	India Biomaterial Market, By Value, 2013-2017 (USD Billion)	266
Figure 216:	India Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	266
Figure 217:	India Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	268
Figure 218:	India Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	268
Figure 219:	India Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	269
Figure 220:	India Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	269



# List of Figures

Figure No.	Figure Title	Page No.
Figure 221:	India Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	270
Figure 222:	India Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	271
Figure 223:	ROW Biomaterials Size, By Value, 2013-2017 (USD Billion)	273
Figure 224:	ROW Biomaterials Market Size, By Value, Forecast, 2018-2023(USD Billion)	274
Figure 225:	Number of Diabetes Worldwide per region in 2017 and 2045 (20-79 years), in millions	275
Figure 226:	ROW Polymer Biomaterial Market, By Value, 2013-2017 (USD Billion)	277
Figure 227:	ROW Polymer Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	277
Figure 228:	ROW Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)	278
Figure 229:	ROW Metal Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	278
Figure 230:	ROW Ceramic Biomaterial Market, By Value, 2013-2017 (USD Billion)	279
Figure 231:	ROW Ceramic Biomaterial , By Value, Forecast, 2018-2023(USD Billion)	279
Figure 232:	APAC Biomaterials Market Size, By Application, By value, 2013-2017 (USD Billion)	281
Figure 233:	APAC Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)	282
Figure 234:	Evonik Industries, Revenue, 2013-2017 (USD Million)	299
Figure 235:	Evonik Industries, Sales Segment, 2017 (%)	299
Figure 236:	Evonik Industries, Revenue, Sales by Region, 2017 (%)	299
Figure 237:	Bayer Healthcare AG, Revenue, 2013-2017 (USD Million)	301
Figure 238:	Bayer Healthcare AG, Sales by Region, 2017 (%)	301
Figure 239:	Bayer Healthcare AG, RnD Expenses in Million Euros, 2017	301
Figure 240:	Zimmer Biomet Holdings, Inc, 2013-2017, (USD Million)	303

## List of Figures

Figure No.	Figure Title	Page No.
Figure 241:	Zimmer Biomet Holdings, Inc , Net Sales by Region, 2017 (%)	303
Figure 242:	Zimmer Biomet Holdings, Inc, Net Sales by product Category , 2017 (%)	303
Figure 243:	Wright Medical Group, Revenue, 2012-2016 (USD Million)	305
Figure 244:	Wright Medical Group Sales, Sales By Segment, 2016 (%)	305
Figure 245:	Wright Medical Group, Sales By Region, 2016 (%)	305
Figure 246:	Koninklijke DSM N.V, Revenue, 2013-2017 (USD Million)	307
Figure 247:	Koninklijke DSM N.V, Sales By Business Segment, 2017 (%)	307
Figure 248:	Koninklijke DSM N.V, Net Sales By Origin, 2017 (%)	307

## List of Table

Table 1:	Europe regional markers: Historic and Forecast	159
----------	--	-----

# Research Methodologies

For our study on Global Biomaterials Market, we have conducted comprehensive secondary research followed by an extensive primary research. In the process of secondary research, we have scrutinized industry documents, accessed from open sources, premium paid databases (Bloomberg, Thomson Reuters, Factiva) and our internal knowledge base. In the process of primary research, we have interviewed various industry experts across the value chain of the medical equipment and service industry.

Market size of the actual period (2013-2017) has been evaluated on the basis of growth trends of the industry in the last five years, and confirming the findings through primary research. Annual reports of the companies are scanned to further validate the market size and to estimate the size of various other applications. Market sizing and growth in the forecast period (2018-2023) is estimated through revenue mapping, growth of new advance equipment and technology and historical growth pattern of the industry. All the relevant data points/ statistics in the forecast period are validated through relevant and reliable primary sources.

Report Focus: Global Biomaterials Market.

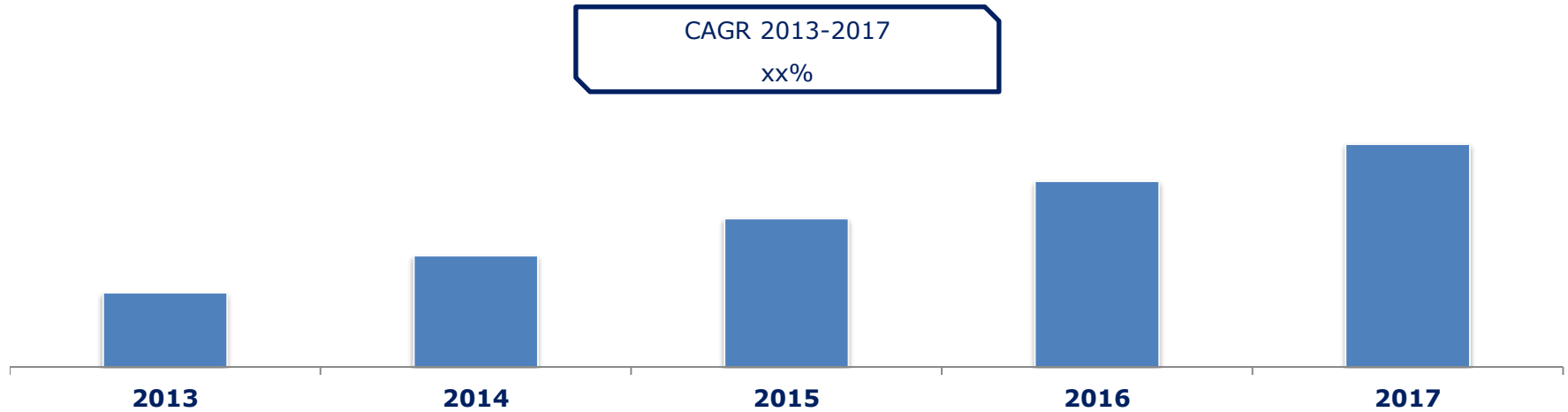
- By Segments (By Type – Polymer, Metal, Ceramic & By Application – Orthopaedic, Cardiology, Plastic, Wound Care and Others )
- By Region (North America, Europe, Asia Pacific and ROW),
- By Country (U.S., Canada, Mexico, U.K, France, Germany, Spain, Italy, India, China, Japan,)
- Company Coverage (Evonik Industries, Bayer Healthcare AG, Zimmer Biomet Holdings Inc. , etc.)

**Companies Contacted: Evonik Industries, Bayer Healthcare AG, Zimmer Biomet Holdings Inc. , etc.**

# Global Biomaterials Market Overview

Global Biomaterials market has been boosted by rise in health consciousness along with increase in health care expenditure.

Figure 1: Global Biomaterials Market Size, By Value, 2013-2017 (USD Billion)



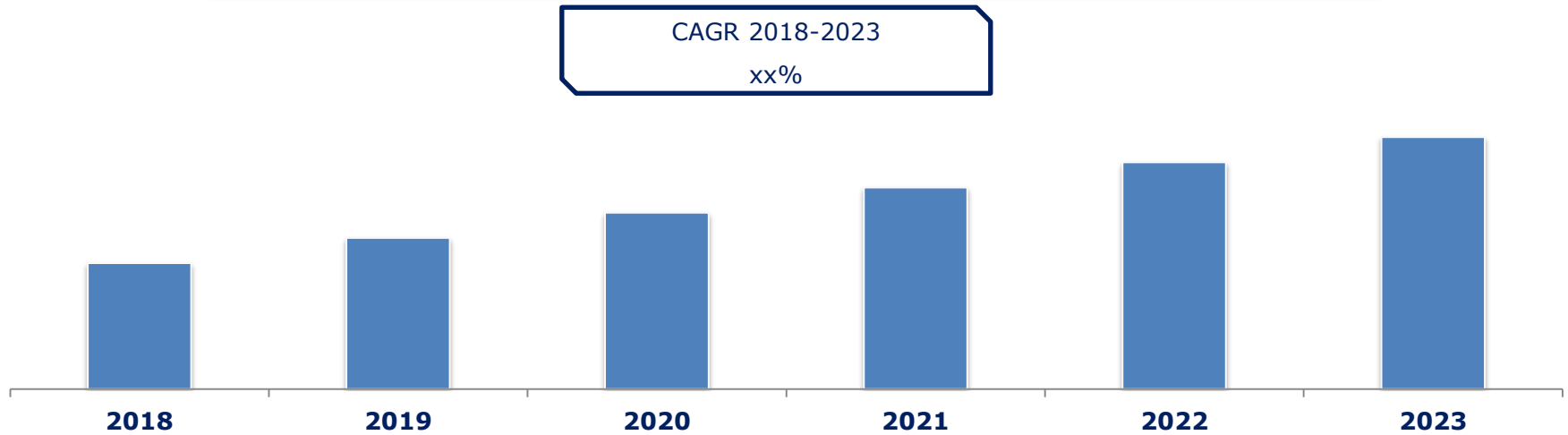
Source: Azoth Analytics Estimates

- A Xx
- A Xx
- A Xx
- A Xx
- A Xx
- A Xx
- A Xx

# Global Biomaterials Market

Increasing number of cardiovascular patients, orthopaedic patient will drive the market of biomaterials in forecast period.

Figure 2: Global Biomaterials Market Size, By Value, Forecast, 2018-2023 (USD Billion)



Source: Azoth Analytics Estimates

A xx

A Xx

A Xx

A Xx

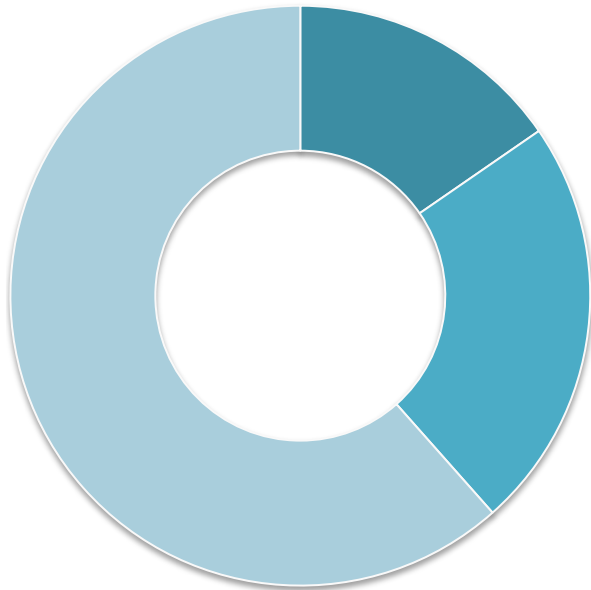
A Xx

# Global Biomaterials Market- By Segment

Polymer biomaterials hold the highest share in the overall biomaterials market with a contribution of a staggering xx% in the year 2017.

**Figure 9: Global Biomaterial Market Size, By Segments, 2017**

(%)



■ Polymer

■ Metal

■ Ceramic

## Key Drivers

xx

xx

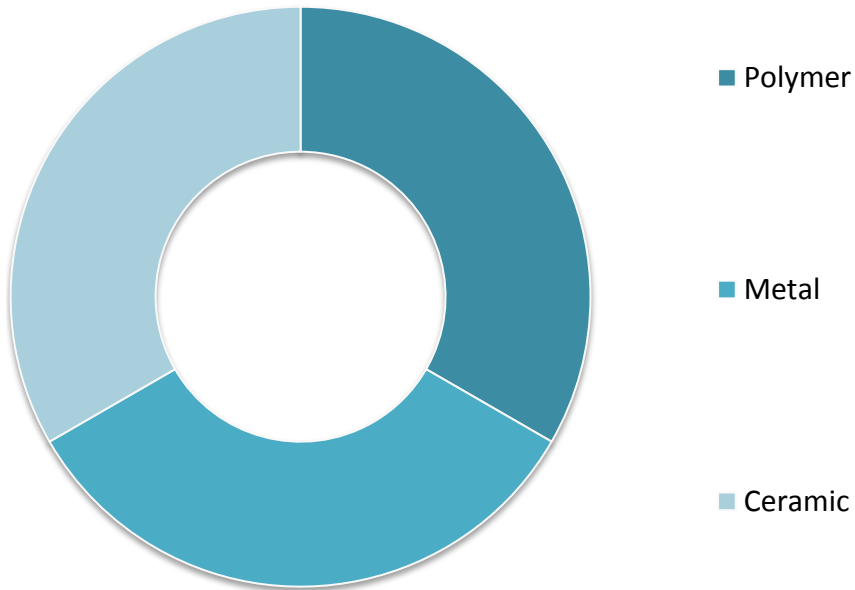
xx

Source: Azoth Analytics Estimates

# Global Biomaterials Market- By Segment

In the forecast period, polymer segment will continue to dominate the overall market. However, metal and ceramic biomaterials will take share from the polymer segment.

Figure 10: Global Biomaterials Market Size, By Segments, 2023 (%)



Source: Azoth Analytics Estimates

## Key Drivers

xx

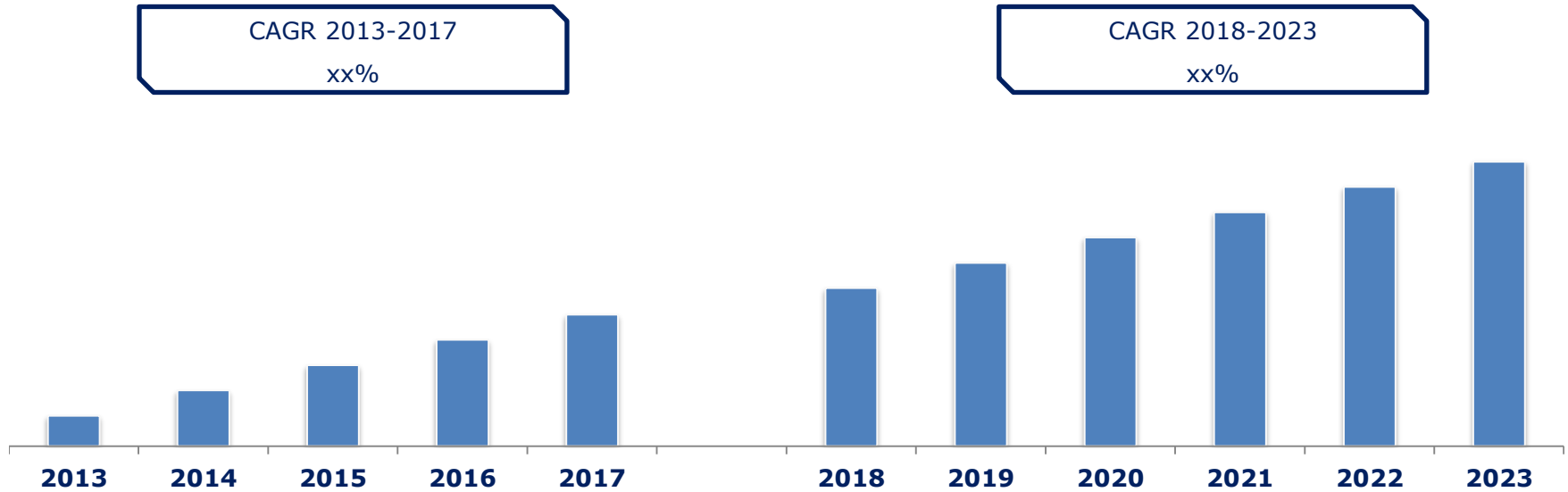
xx

xx

# Global Polymer Biomaterial Market

**Figure 11: Global Polymer Biomaterial Market, By Value, 2013-2016 (USD Billion)**

**Figure 12: Global Polymer Biomaterial, By Value, Forecast, 2017-2023(USD Billion)**



Source: Azoth Analytics Estimates

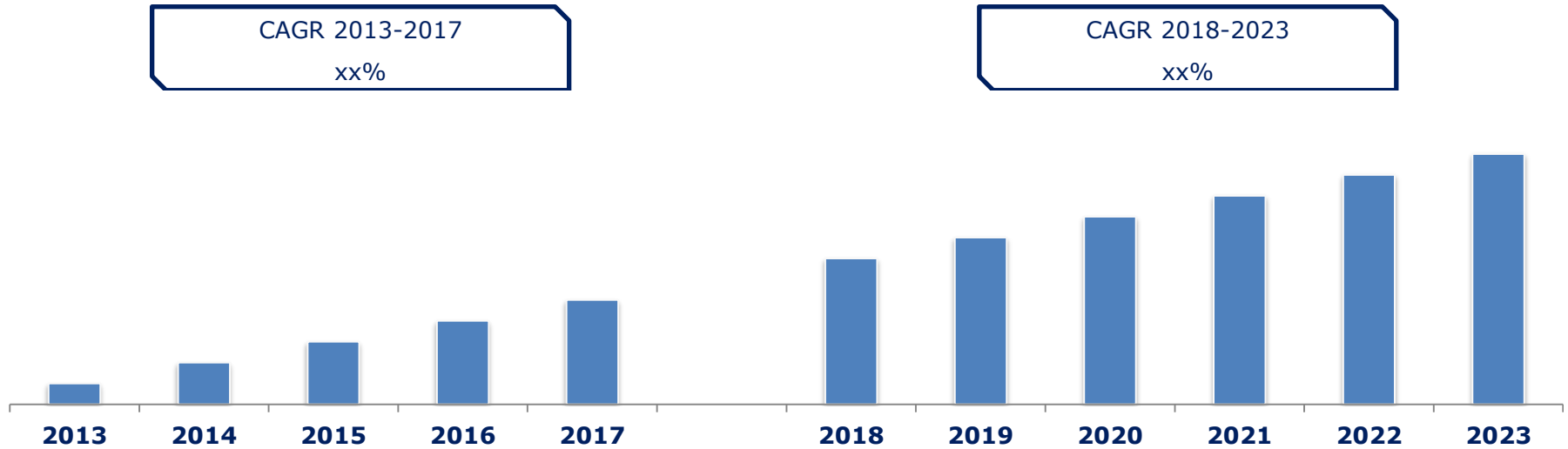
- A Xx
- A Xx
- A Xx
- A Xx
- A Xx



# Global Metal Biomaterial Market

**Figure 13: Global Metal Biomaterial Market, By Value, 2013-2017 (USD Billion)**

**Figure 14: Global Metal Biomaterial Market, By Value, Forecast, 2018-2023 (USD Billion)**



Source: Azoth Analytics Estimates

A Xx

A Xx

A Xx

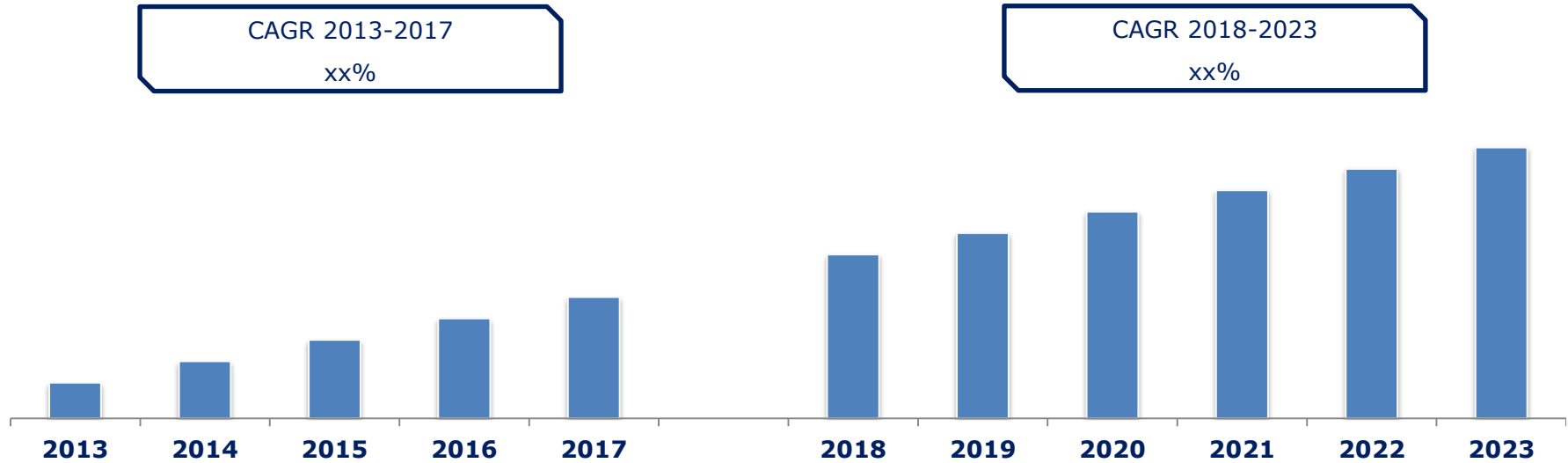
A Xx

A Xx

# Global Ceramic Biomaterial Market

**Figure 15: Global Ceramic Biomaterial Market, By Value, 2012-2016 (USD Billion)**

**Figure 16: Global Ceramic Biomaterial Market, By Value, Forecast, 2017-2022 (USD Billion)**



Source: Azoth Analytics Estimates

A Xx

A Xx

A Xx

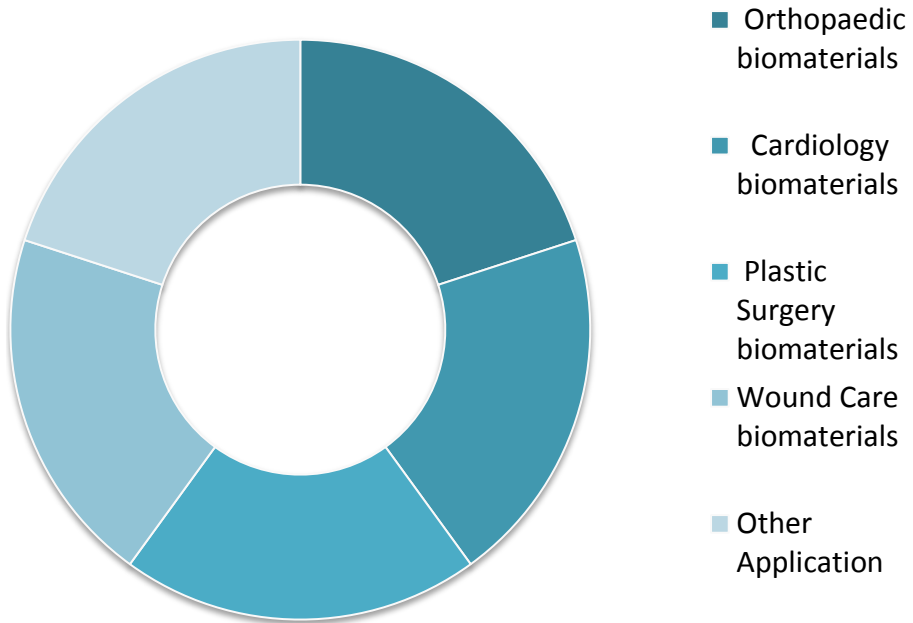
A Xx

A Xx

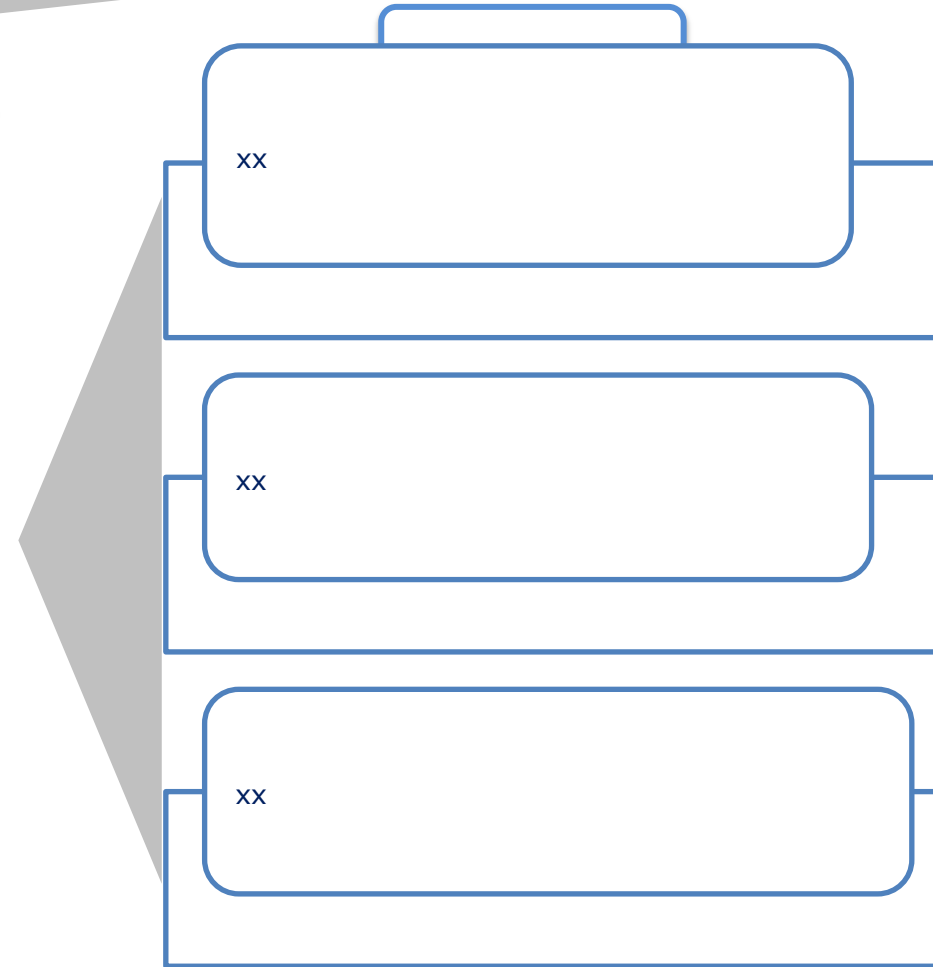
# Global Biomaterials Market- By Application

Orthopaedic biomaterials hold the highest share in the overall biomaterials market with a contribution of a staggering xx% in the year 2017.

**Figure 18: Global Biomaterial Market Size, By Application , 2017 (%)**



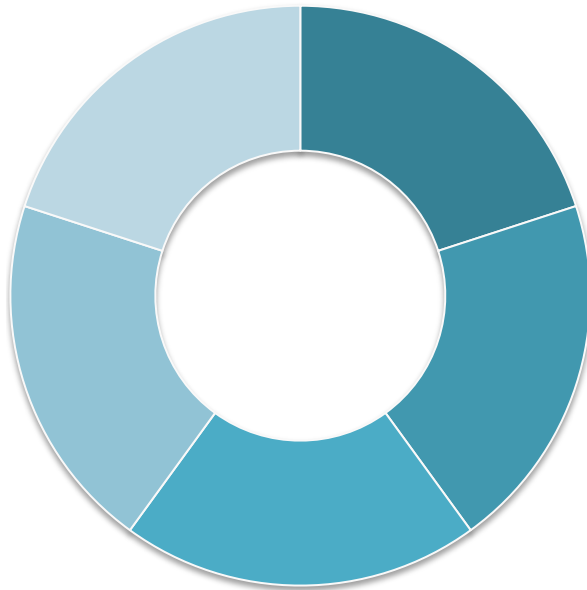
Source: Azoth Analytics Estimates



# Global Biomaterials Market- By Application

In the forecast period, Orthopaedic biomaterials is likely to dominate the overall market followed by cardiology biomaterials.

Figure 19: Global Biomaterials Market Size, By Application, 2023 (%)



Source: Azoth Analytics Estimates

- Orthopaedic biomaterials
- Cardiology biomaterials
- Plastic Surgery biomaterials
- Wound Care biomaterials
- Other Application

## Key Drivers

xx

xx

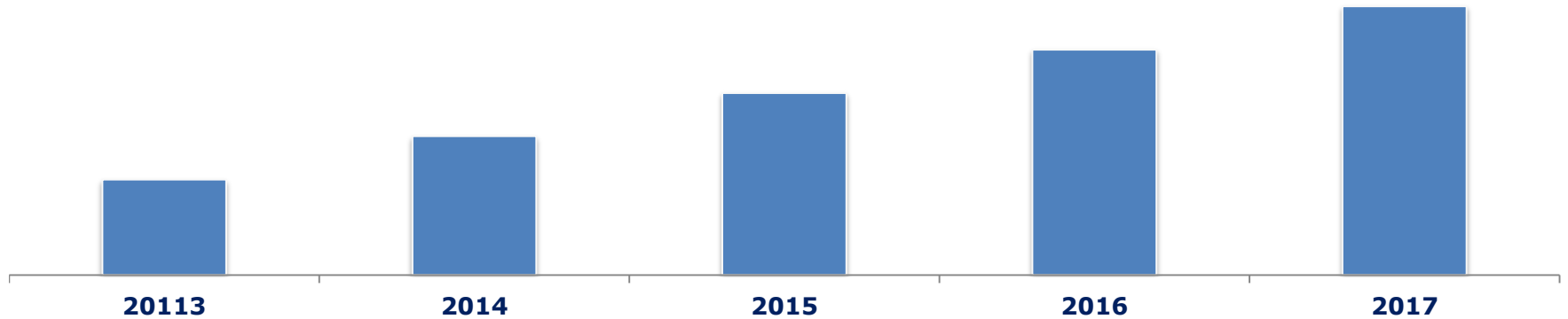
xx

# North America Biomaterials Market Overview

Biomaterials market in North America has been boosted by rising number of orthopaedic and cardiovascular diseases.

Figure 40: North America Biomaterial Market Size, By Value, 2013-2017 (USD Billion)

CAGR 2013-2017  
xx%



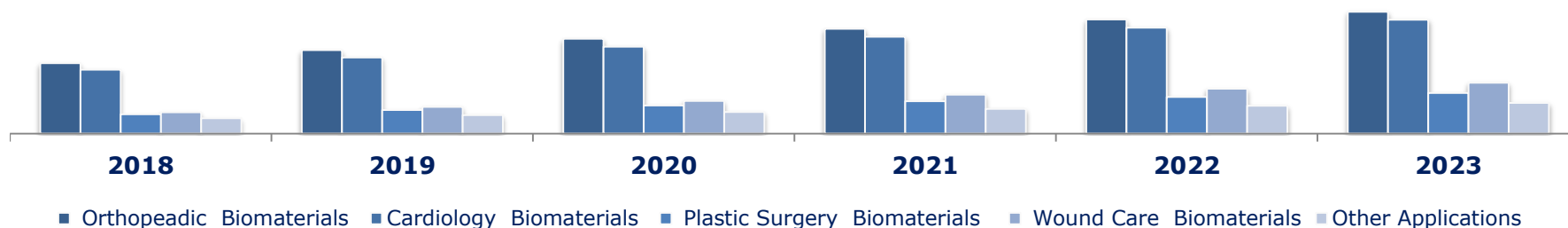
Source: Azoth Analytics Estimates

- A Xx
- A Xx
- A Xx
- A Xx
- A Xx

# North America Biomaterials Market - By Application

Figure 53: North America Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)

**CAGR 2018-2023**  
 Orthopaedic : xx%  
 Cardiology : xx%  
 Wound care : xx%  
 Plastic : xx%  
 Other Applications : xx%

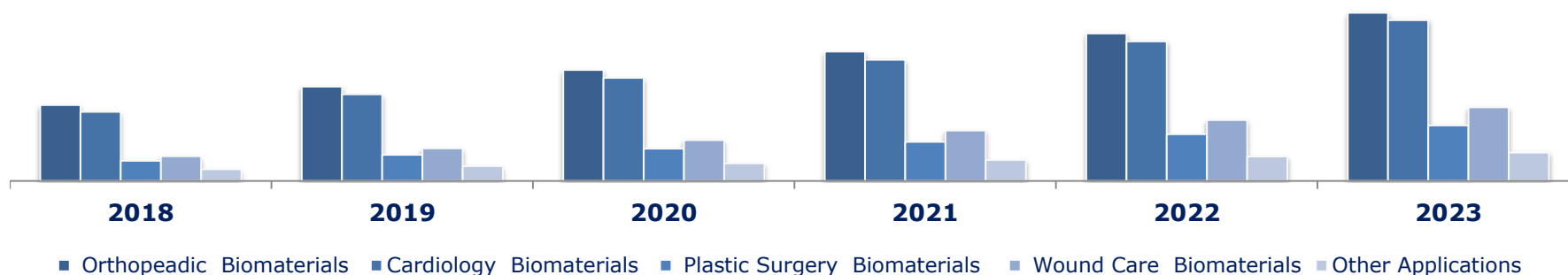


	2018	2019	2020	2021	2022	2023
<b>Orthopaedic Biomaterials</b>	Xx	Xx	Xx	Xx	Xx	Xx
<b>Cardiology Biomaterials</b>	Xx	Xx	Xx	Xx	Xx	Xx
<b>Wound Care Biomaterials</b>	Xx	Xx	Xx	Xx	Xx	Xx
<b>Plastic Surgery Biomaterials</b>	Xx	Xx	Xx	Xx	Xx	Xx
<b>Other Applications</b>	Xx	Xx	Xx	Xx	Xx	Xx

# China Biomaterials Market- By Application

Figure 201: China Biomaterials Market Size, By Application, By value, 2018-2023 (USD Billion)

**CAGR 2018-2023**  
 Orthopaedic : X%  
 Cardiology : X%  
 Wound care :X%  
 Plastic : X%  
 Other Applications : X%



	2018	2019	2020	2021	2022	2023
<b>Orthopaedic Biomaterials</b>	Xx	Xx	Xx	Xx	Xx	Xx
<b>Cardiology Biomaterials</b>	Xx	Xx	Xx	Xx	Xx	Xx
<b>Wound Care Biomaterials</b>	Xx	Xx	Xx	Xx	Xx	Xx
<b>Plastic Surgery Biomaterials</b>	Xx	Xx	Xx	Xx	Xx	Xx
<b>Other Applications</b>	Xx	Xx	Xx	Xx	Xx	Xx

## About Azoth Analytics Pvt Ltd.

Azoth Analytics is a business research and analytics firm that creates in-depth research reports and provides customized research solutions and consultancy services. Verticals in which Azoth Analytics specializes include healthcare and pharmaceutical, oil and gas, retail, chemicals, automotive, FMCG, food & beverages and technology. Azoth creates comprehensive and in-depth research reports by recording, interpreting and analyzing information. Strategic market sizing and data dredging techniques include secondary research, and primary research (interviews with management personnel and industry experts).

**Disclaimer:** Azoth Analytics report information is based mainly on interviews and therefore, is subject to fluctuation. Azoth Analytics therefore, takes no responsibility for any incorrect information supplied to us by industry experts, manufacturers or users. Azoth does not warranty the completeness of the information and data. Also, analysis provided in the report are meant for customers' internal use only and not for general publication or disclosure to third parties.