

## **Middle East and Africa Precision Forestry Market**

Market Report | 2024-07-01 | 298 pages | Data Bridge Market Research

### **AVAILABLE LICENSES:**

- Single User License \$3500.00
- Corporate Users License \$4200.00

### **Report description:**

Middle East and Africa Precision Forestry market is expected to reach USD 274.77 million by 2031 from USD 162.56 million in 2024, growing with a CAGR of 7.8% in the forecast period of 2024 to 2031.

Market Segmentation:

Middle East and Africa Precision Forestry market, By Offering (Hardware, Software and Services), Technology [Data Analytics and AI, IoT (Internet of Things), GIS (Geographic Information System), Remote Sensing, GPS (Global Positioning Systems) and Others], Application (Forest Management, Harvesting and Operations, Environmental and Conservation, Fire Management, Reforestation and Afforestation, Pest and Disease Management, and Others), Deployment (Cloud and On Premises), End-User (Forestry Companies, Government and Public Agencies, Conservation Organizations, Research Institutes, and Others), Countries (South Africa, Saudi Arabia, U.A.E., Israel, Egypt, Kuwait, Bahrain, Rest of Middle East and Africa)- Industry Trends and Forecast to 2031

Overview of Middle East and Africa Precision Forestry Market Dynamics:

Driver

- Growing usage of GPS and GIS for precise mapping and monitoring of forest resources

Restraint

- High capital investment

Opportunity

- Optimization of forest operations lead to increased productivity and resource utilization

Market Players:

The key market players operating in the Middle East and Africa precision forestry market are listed below:

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Deere & Company
- AFRY AB
- Trimble Inc.
- Hexagon AB
- Teledyne Technologies Inc.
- Arboair
- Maxar Technologies
- Dryad Networks GmbH
- Planet Labs Inc.
- BlackSky
- HARDWARIO a.s.
- Agremo
- CID Bio-Science Inc
- Axelspace.
- AgEagle Aerial Systems Inc
- EOS DATA ANALYTICS, INC
- TREEMETRICS
- PreFor
- Silvacom FMS
- Adroit
- HySpecIQ
- BLUE SKY NETWORK
- Swift Geospatial
- SATPALDA

## **Table of Contents:**

1	INTRODUCTION	70
1.1	OBJECTIVES OF THE STUDY	70
1.2	MARKET DEFINITION	70
1.3	OVERVIEW OF THE MIDDLE EAST AND AFRICA PRECISION FORESTRY	70
1.4	CURRENCY AND PRICING	72
1.5	LIMITATIONS	72
1.6	MARKETS COVERED	72
2	MARKET SEGMENTATION	78
2.1	MARKETS COVERED	78
2.2	GEOGRAPHICAL SCOPE	79
2.3	YEARS CONSIDERED FOR THE STUDY	80
2.4	DBMR TRIPOD DATA VALIDATION MODEL	81
2.5	PRIMARY INTERVIEWS WITH KEY OPINION LEADERS	84
2.6	DBMR MARKET POSITION GRID	85
2.7	VENDOR SHARE ANALYSIS	87
2.8	MULTIVARIATE MODELING	88
2.9	OFFERING TIMELINE CURVE	89
2.10	MARKET APPLICATION COVERAGE GRID	90
2.11	SECONDARY SOURCES	91

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

2.12 ASSUMPTIONS	91
3 EXECUTIVE SUMMARY	92
4 PREMIUM INSIGHTS	97
4.1 PORTER'S FIVE FORCES	98
4.2 TECHNOLOGY TRENDS	99
4.2.1 REMOTE SENSING AND GIS TECHNOLOGIES	99
4.2.2 INTERNET OF THINGS (IOT) AND SENSOR NETWORKS	99
4.2.3 BIG DATA AND ANALYTICS	99
4.2.4 GEOGRAPHIC INFORMATION SYSTEM (GIS)	100
4.2.5 MOBILE APPLICATIONS AND CLOUD COMPUTING	100
4.2.6 BLOCK CHAIN TECHNOLOGY	100
4.3 REGULATORY STANDARDS	101
4.4 PRICING ANALYSIS	103
4.5 COMPANY COMPARATIVE ANALYSIS	105
4.6 DEVICE LIFETIME	106
4.6.1 IMPORT AND EXPORT SCENARIO	107
4.7 VALUE CHAIN ANALYSIS	109
4.7.1 RAW MATERIALS AND INPUT SUPPLIERS	109
4.7.2 TECHNOLOGY DEVELOPERS AND MANUFACTURERS	109
4.7.3 SYSTEM INTEGRATORS AND SERVICE PROVIDERS	109
4.7.4 FORESTRY COMPANIES AND LANDOWNERS	110
4.7.5 DISTRIBUTION AND LOGISTICS	110
4.7.6 END USERS AND CONSUMERS	110
4.7.7 VALUE CHAIN FLOW AND INTERACTIONS	110
5 MARKET OVERVIEW	112
5.1 DRIVERS	114
5.1.1 GROWING USAGE OF GPS AND GIS FOR PRECISE MAPPING AND MONITORING OF FOREST RESOURCES	114
5.1.2 INCREASING USE OF SATELLITE IMAGERY AND DRONES FOR REAL-TIME MONITORING AND EFFICIENT DATA COLLECTION	115
5.1.3 ADAPTIVE MANAGEMENT STRATEGIES TO MITIGATE THE IMPACTS OF CLIMATE CHANGE	116
5.1.4 REDUCTION IN THE OPERATIONAL COSTS THROUGH OPTIMIZED RESOURCE ALLOCATION AND WASTE REDUCTION	116
5.2 RESTRAINT	118
5.2.1 HIGH CAPITAL INVESTMENT	118
5.3 OPPORTUNITIES	119
5.3.1 OPTIMIZATION OF FOREST OPERATIONS LEAD TO INCREASED PRODUCTIVITY AND RESOURCE UTILIZATION	119
5.3.2 INCREASING FOCUS TOWARDS THE PRODUCT DEVELOPMENT OF NON-TIMBER FOREST	119
5.3.3 PARTNERSHIPS BETWEEN GOVERNMENT, NGOS, AND PRIVATE COMPANIES TO DRIVE INNOVATION AND IMPLEMENTATION	120
5.4 CHALLENGES	121
5.4.1 LACK OF STANDARDIZATION AND DATA SECURITY ISSUES	121
5.4.2 LACK OF SKILLS AND TECHNICAL AWARENESS FOR OPERATING ADVANCED PRECISION FORESTRY TECHNOLOGIES	122
6 MIDDLE EAST AND AFRICA PRECISION FORESTRY MARKET, BY OFFERING	123
6.1 OVERVIEW	124
6.2 HARDWARE	125
6.2.1 HARDWARE, BY TYPE	126
6.2.1.1 DRONES AND UAVS	126
6.2.1.2 LIDAR SENSORS	126
6.2.1.3 GPS DEVICES	126

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 6.2.1.4 SMART SENSOR (SOIL, WEATHER, WATER) 126
- 6.3 SOFTWARE 127
  - 6.3.1 SOFTWARE, BY TYPE 127
    - 6.3.1.1 REMOTE SENSING SOFTWARE 128
    - 6.3.1.2 FOREST MANAGEMENT SYSTEM 128
    - 6.3.1.3 GIS SOFTWARE 128
    - 6.3.1.4 DATA ANALYTICS PLATFORMS 128
- 6.4 SERVICES 128
  - 6.4.1 SERVICES, BY TYPE 129
    - 6.4.1.1 MANAGED SERVICES 129
    - 6.4.1.2 PROFESSIONAL SERVICES 129
      - 6.4.1.2.1 PROFESSIONAL SERVICES, BY TYPE 129
      - 6.4.1.2.2 CONSULTING & TRAINING 130
      - 6.4.1.2.3 IMPLEMENTATION INTEGRATION 130
      - 6.4.1.2.4 MAINTENANCE & SUPPORT 130
- 7 MIDDLE EAST AND AFRICA PRECISION FORESTRY MARKET, BY TECHNOLOGY 131
  - 7.1 OVERVIEW 132
  - 7.2 DATA ANALYTICS AND AI 133
    - 7.2.1 DATA ANALYTICS AND AI, BY TYPE 134
      - 7.2.1.1 DECISION SUPPORT SYSTEMS 134
      - 7.2.1.2 PREDICTIVE ANALYTICS 134
      - 7.2.1.3 MACHINE LEARNING FOR PATTERN RECOGNITION 134
  - 7.3 IOT (INTERNET OF THINGS) 135
    - 7.3.1 IOT (INTERNET OF THINGS), BY TYPE 135
      - 7.3.1.1 CONNECTED DEVICES FOR REAL-TIME MONITORING 136
      - 7.3.1.2 SMART SENSORS FOR SOIL AND WEATHER 136
  - 7.4 GIS (GEOGRAPHIC INFORMATION SYSTEMS) 136
    - 7.4.1 GIS (GEOGRAPHIC INFORMATION SYSTEMS), BY TYPE 137
      - 7.4.1.1 MAPPING AND SPATIAL ANALYSIS 137
      - 7.4.1.2 DATA MANAGEMENT 137
  - 7.5 REMOTE SENSING 138
    - 7.5.1 REMOTE SENSING, BY TYPE 138
      - 7.5.1.1 Satellite Imagery 139
      - 7.5.1.2 UAV (UNNAMED AERIAL VEHICLE) 139
      - 7.5.1.3 LIDAR (LIGHT DETECTION AND RANGING) 139
      - 7.5.1.4 OTHERS 139
  - 7.6 GPS (GLOBAL POSITIONING SYSTEMS) 139
    - 7.6.1 GPS (GLOBAL POSITIONING SYSTEMS), BY TYPE 140
      - 7.6.1.1 PRECISION HARVESTING 140
      - 7.6.1.2 FOREST INVENTORY MAPPING 140
      - 7.6.1.3 WILDLIFE AND HABITAT MONITORING 140
  - 7.7 OTHERS 141
- 8 MIDDLE EAST AND AFRICA PRECISION FORESTRY MARKET, BY APPLICATION 142
  - 8.1 OVERVIEW 143
  - 8.2 FOREST MANAGEMENT 144
    - 8.2.1 FOREST MANAGEMENT, BY TYPE 145
      - 8.2.1.1 GROWTH AND YIELD MODELING 145

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 8.2.1.2 INVENTORY MANAGEMENT 145
- 8.2.1.3 THINNING AND PRUNING MANAGEMENT 145
- 8.3 HARVESTING AND OPERATION 146
- 8.3.1 HARVESTING AND OPERATION, BY TYPE 146
- 8.3.1.1 PRECISION LOGGING 147
- 8.3.1.2 MACHINERY GUIDANCE AND AUTOMATION 147
- 8.3.1.3 AUTOMATION ROAD AND INFRASTRUCTURE PLANNING 147
- 8.4 ENVIRONMENTAL AND CONSERVATION 147
- 8.4.1 ENVIRONMENTAL AND CONSERVATION, BY TYPE 148
- 8.4.1.1 BIODIVERSITY MONITORING 148
- 8.4.1.2 CARBON SEQUESTRATION MEASUREMENT 148
- 8.4.1.3 HABITAT PRESERVATION 148
- 8.5 FIRE MANAGEMENT 149
- 8.5.1 FIRE MANAGEMENT, BY TYPE 149
- 8.5.1.1 FIRE RISK ASSESSMENT 150
- 8.5.1.2 FIRE DETECTION AND MONITORING 150
- 8.5.1.3 POST-FIRE RECOVERY 150
- 8.6 REFORESTATION AND AFFORESTATION 150
- 8.6.1 REFORESTATION AND AFFORESTATION, BY TYPE 151
- 8.6.1.1 SITE SELECTION AND PREPARATION 151
- 8.6.1.2 GROWTH TRACKING 151
- 8.6.1.3 SEEDING MONITORING 151
- 8.7 PEST AND DISEASE MANAGEMENT 152
- 8.7.1 PEST AND DISEASE MANAGEMENT, BY TYPE 152
- 8.7.1.1 EARLY DETECTION OF INFESTATIONS 153
- 8.7.1.2 DISEASE SPREAD MODELING 153
- 8.7.1.3 TREATMENT AND CONTROL STRATEGIES 153
- 8.8 OTHERS 153
- 9 MIDDLE EAST AND AFRICA PRECISION FORESTRY MARKET, BY DEPLOYMENT MODE 154
- 9.1 OVERVIEW 155
- 9.2 CLOUD 156
- 9.3 ON-PREMISE 157
- 10 MIDDLE EAST AND AFRICA PRECISION FORESTRY MARKET, BY END USER 158
- 10.1 OVERVIEW 159
- 10.2 FORESTRY COMPANIES 160
- 10.3 GOVERNMENT AND PUBLIC AGENCIES 161
- 10.4 CONSERVATION AND ORGANIZATIONS 161
- 10.5 RESEARCH INSTITUTE 162
- 10.6 OTHERS 162
- 11 MIDDLE EAST AND AFRICA PRECISION FORESTRY MARKET, BY REGION 163
- 11.1 MIDDLE EAST AND AFRICA 165
- 11.1.1 SOUTH AFRICA 174
- 11.1.2 SAUDI ARABIA 182
- 11.1.3 U.A.E. 190
- 11.1.4 ISRAEL 198
- 11.1.5 EGYPT 206
- 11.1.6 KUWAIT 214

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 11.1.7 BAHRAIN 222
- 11.1.8 REST OF MIDDLE EAST AND AFRICA 230
- 12 MIDDLE EAST AND AFRICA PRECISION FORESTRY MARKET: COMPANY LANDSCAPE 231
- 12.1 COMPANY SHARE ANALYSIS: MIDDLE EAST AND AFRICA
- 13 SWOT ANALYSIS 232
- 14 COMPANY PROFILES 233
  - 14.1 DEERE & COMPANY 233
    - 14.1.1 COMPANY SNAPSHOT 233
    - 14.1.2 REVENUE ANALYSIS 234
    - 14.1.3 COMPANY SHARE ANALYSIS 234
    - 14.1.4 PRODUCT PORTFOLIO 234
    - 14.1.5 RECENT DEVELOPMENTS 235
  - 14.2 HEXAGON AB 236
    - 14.2.1 COMPANY SNAPSHOT 236
    - 14.2.2 REVENUE ANALYSIS 236
    - 14.2.3 COMPANY SHARE ANALYSIS 237
    - 14.2.4 PRODUCT PORTFOLIO 237
    - 14.2.5 RECENT DEVELOPMENT 240
  - 14.3 TRIMBLE INC 241
    - 14.3.1 COMPANY SNAPSHOT 241
    - 14.3.2 REVENUE ANALYSIS 241
    - 14.3.3 COMPANY SHARE ANALYSIS 242
    - 14.3.4 SOLUTION PORTFOLIO 242
    - 14.3.5 RECENT DEVELOPMENTS 244
  - 14.4 AFRY AB 245
    - 14.4.1 COMPANY SNAPSHOT 245
    - 14.4.2 REVENUE ANALYSIS 245
    - 14.4.3 PRODUCTS AND SERVICES PORTFOLIO 246
    - 14.4.4 RECENT DEVELOPMENTS 248
  - 14.5 TELEDYNE TECHNOLOGIES 249
    - 14.5.1 COMPANY SNAPSHOT 249
    - 14.5.2 REVENUE ANALYSIS 249
    - 14.5.3 COMPANY SHARE ANALYSIS 250
    - 14.5.4 PRODUCT PORTFOLIO 250
    - 14.5.5 RECENT DEVELOPMENTS 253
  - 14.6 ADROIT 255
    - 14.6.1 COMPANY SNAPSHOT 255
    - 14.6.2 PRODUCT PORTFOLIO 255
    - 14.6.3 RECENT DEVELOPMENTS 255
  - 14.7 AGEAGLE AERIAL SYSTEMS INC 256
    - 14.7.1 COMPANY SNAPSHOT 256
    - 14.7.2 REVENUE ANALYSIS 257
    - 14.7.3 PRODUCT PORTFOLIO 257
    - 14.7.4 RECENT DEVELOPMENTS 258
  - 14.8 AGREMO 259
    - 14.8.1 COMPANY SNAPSHOT 259
    - 14.8.2 PRODUCT PORTFOLIO 259

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

14.8.3 RECENT DEVELOPMENTS	260
14.9 ARBOAIR	261
14.9.1 COMPANY SNAPSHOT	261
14.9.2 PRODUCT PORTFOLIO	261
14.9.3 RECENT DEVELOPMENTS	262
14.10 AXELSPACE	263
14.10.1 COMPANY SNAPSHOT	263
14.10.2 SERVICE PORTFOLIO	263
14.10.3 RECENT DEVELOPMENTS	263
14.11 BLACKSKY	265
14.11.1 COMPANY SNAPSHOT	265
14.11.2 REVENUE ANALYSIS	265
14.11.3 PRODUCT PORTFOLIO	266
14.11.4 RECENT DEVELOPMENTS	266
14.12 BLUE SKY NETWORK	267
14.12.1 COMPANY SNAPSHOT	267
14.12.2 PRODUCT PORTFOLIO	267
14.12.3 RECENT DEVELOPMENTS	268
14.13 CID BIO-SCIENCE	269
14.13.1 COMPANY SNAPSHOT	269
14.13.2 PRODUCT PORTFOLIO	269
14.13.3 RECENT DEVELOPMENT	271
14.14 DRYAD NETWORKS GMBH	272
14.14.1 COMPANY SNAPSHOT	272
14.14.2 PRODUCT PORTFOLIO	272
14.14.3 RECENT DEVELOPMENTS	272
14.15 EOS DATA ANALYTICS, INC.	274
14.15.1 COMPANY SNAPSHOT	274
14.15.2 PRODUCT PORTFOLIO	274
14.15.3 RECENT DEVELOPMENT	275
14.16 HARDWARIO A.S.	276
14.16.1 COMPANY SNAPSHOT	276
14.16.2 REVENUE ANALYSIS	276
14.16.3 PRODUCT PORTFOLIO	277
14.16.4 RECENT DEVELOPMENTS	277
14.17 HYSPECIQ	279
14.17.1 COMPANY SNAPSHOT	279
14.17.2 PRODUCT PORTFOLIO	279
14.17.3 RECENT DEVELOPMENTS	280
14.18 MAXAR TECHNOLOGIES	281
14.18.1 COMPANY SNAPSHOT	281
14.18.2 PRODUCT PORTFOLIO	281
14.18.3 RECENT DEVELOPMENT	282
14.19 PLANET LABS PBC	283
14.19.1 COMPANY SNAPSHOT	283
14.19.2 REVENUE ANALYSIS	283
14.19.3 PRODUCT PORTFOLIO	284

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 14.19.4 RECENT DEVELOPMENT 284
- 14.20 PREFOR PRECISION FORESTRY 285
  - 14.20.1 COMPANY SNAPSHOT 285
  - 14.20.2 PRODUCT PORTFOLIO 285
  - 14.20.3 RECENT DEVELOPMENTS 285
- 14.21 SATPALDA 286
  - 14.21.1 COMPANY SNAPSHOT 286
  - 14.21.2 SERVICE PORTFOLIO 286
  - 14.21.3 RECENT DEVELOPMENT 287
- 14.22 SILVACOM LTD. 288
  - 14.22.1 COMPANY SNAPSHOT 288
  - 14.22.2 PRODUCT PORTFOLIO 288
  - 14.22.3 RECENT DEVELOPMENTS 289
- 14.23 SWIFT GEOSPATIAL 290
  - 14.23.1 COMPANY SNAPSHOT 290
  - 14.23.2 SOLUTION PORTFOLIO 290
  - 14.23.3 RECENT DEVELOPMENTS 290
- 14.24 TREEMETRICS 291
  - 14.24.1 COMPANY SNAPSHOT 291
  - 14.24.2 PRODUCT PORTFOLIO 291
  - 14.24.3 RECENT DEVELOPMENTS 292
- 15 QUESTIONNAIRE 294
- 16 RELATED REPORTS 298
- ?

**Middle East and Africa Precision Forestry Market**

Market Report | 2024-07-01 | 298 pages | Data Bridge Market Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scott's-international.com

**ORDER FORM:**

Select license	License	Price
	Single User License	\$3500.00
	Corporate Users License	\$4200.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scott's-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-10"/>
		Signature	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scott's-international.com

www.scott's-international.com