

Europe Artificial Intelligence in Agriculture Market

Market Report | 2024-07-01 | 468 pages | Data Bridge Market Research

AVAILABLE LICENSES:

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

Report description:

Europe Artificial Intelligence in Agriculture market is expected to reach USD 2,422.28 Million by 2031 from USD 520.95 Million in 2023, growing with a CAGR of 21.7% in the forecast period of 2024 to 2031.

Market Segmentation:

Europe artificial intelligence in agriculture market, By Offering (Hardware, Software, Services), Technology [Machine Learning (ML), Computer Vision, Natural Language Processing (NLP), Robotics & Automation, and Others], Application (Precision Farming, Livestock Monitoring, Weather Forecasting, Soil Management, Crop Health Monitoring, Supply Chain Optimization, and Others), Deployment Mode (Cloud, and On-Premise), End User (Farms, Agro-Tech Companies, Agrochemical Companies, Research Institutes, and Others), Countries (Italy, France, Germany, Spain, Poland, Netherlands, Romania, Denmark, Belgium, Greece, Portugal, Hungary, Austria, Ireland, Czechia, Sweden, Bulgaria, Finland, Croatia, Lithuania, Slovenia, Latvia, Slovakia, Cyprus, Estonia, Luxembourg, Malta and Non-EU Europe)- Industry Trends and Forecast to 2031

Overview of Europe Artificial Intelligence in Agriculture Market Dynamics**Driver**

- Increasing crop monitoring and Yield prediction accuracy

Restraint

- Persistent data privacy and security concerns

Opportunity

- Integrating AI with hardware for better deployment

Market Players:

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

The key market players operating in the Europe artificial intelligence in agriculture market are listed below:

- Deere & Company
- IBM
- Microsoft
- OpenAI
- Open Text Corporation
- ClimateAi,
- AgEagle Aerial Systems Inc
- CNH Industrial N.V.
- AGCO Corporation
- KUBOTA Corporation
- YANMAR HOLDINGS CO., LTD.
- DeLaval
- Lely
- Raven Industries, Inc.
- Gamaya, Bayer AG
- VALMONT INDUSTRIES, INC.
- Cisco Systems, Inc.
- Oracle
- Harvest CROO Robotics LLC
- ADM
- SYNGENTA EUROPE
- Corteva
- Bowery Farming Inc.

Table of Contents:

1 INTRODUCTION 72
1.1 OBJECTIVES OF THE STUDY 72
1.2 MARKET DEFINITION 72
1.3 OVERVIEW OF THE EUROPE ARTIFICIAL INTELLIGENCE IN AGRICULTURE 72
1.4 CURRENCY AND PRICING 74
1.5 LIMITATIONS 74
1.6 MARKETS COVERED 74
2 MARKET SEGMENTATION 79
2.1 MARKETS COVERED 79
2.2 GEOGRAPHICAL SCOPE 80
2.3 YEARS CONSIDERED FOR THE STUDY 81
2.4 DBMR TRIPOD DATA VALIDATION MODEL 82
2.5 PRIMARY INTERVIEWS WITH KEY OPINION LEADERS 85
2.6 DBMR MARKET POSITION GRID 86
2.7 VENDOR SHARE ANALYSIS 87
2.8 MULTIVARIATE MODELING 88
2.9 OFFERING TIMELINE CURVE 89
2.10 SECONDARY SOURCES 90
2.11 ASSUMPTIONS 90

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

3 EXECUTIVE SUMMARY	91
4 PREMIUM INSIGHTS	96
4.1 PORTER'S FIVE FORCES ANALYSIS	97
4.2 REGULATORY STANDARDS	98
4.3 TECHNOLOGICAL TRENDS	99
4.4 COMPANY COMPARATIVE ANALYSIS	101
4.5 DEVICE LIFETIME	103
4.6 IMPORT AND EXPORT SHIPMENTS	104
4.7 VALUE CHAIN ANALYSIS	105
5 MARKET OVERVIEW	107
5.1 DRIVERS	109
5.1.1 INCREASING CROP MONITORING AND YIELD PREDICTION ACCURACY	109
5.1.2 INCREASING IMPLEMENTATION OF BETTER FARMING TECHNIQUES WITH AI	110
5.1.3 BOOSTING AGRICULTURAL EFFICIENCY WITH DATA-DRIVEN DECISIONS	110
5.1.4 IMPROVING PEST AND DISEASE MANAGEMENT WITH AI	112
5.2 RESTRAINTS	113
5.2.1 PERSISTENT DATA PRIVACY AND SECURITY CONCERNs	113
5.2.2 HIGH INITIAL INVESTMENT LIMITING TECHNOLOGY ADOPTION	114
5.3 OPPORTUNITIES	116
5.3.1 INTEGRATING AI WITH HARDWARE FOR BETTER DEPLOYMENT	116
5.3.2 INCREASE IN THE DEVELOPING AI TOOLS FOR MARKET PRICE FORECASTING	117
5.3.3 STRATEGIC PARTNERSHIPS ENHANCE AGRICULTURAL SOLUTIONS	117
5.4 CHALLENGES	119
5.4.1 LIMITED AVAILABILITY OF SKILLED PERSONNEL AFFECTS THE EFFECTIVE MANAGEMENT AND OPERATION OF AI TECHNOLOGIES	119
5.4.2 DIFFICULTY TOWARDS INTEGRATING AI SOLUTIONS WITH EXISTING AGRICULTURAL MACHINERY AND DURING SOFTWARE ADOPTION	120
6 EUROPE ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET, BY OFFERING	121
6.1 OVERVIEW	122
6.2 HARDWARE	123
6.2.1 HARDWARE, BY TYPE	124
6.2.1.1 SENSORS	124
6.2.1.2 DRONE AND UAV's	124
6.2.1.3 ROBOT AND AUTONOMOUS MACHINERY	124
6.3 SOFTWARE	125
6.3.1 SOFTWARE, BY TYPE	125
6.3.1.1 FARM MANAGEMENT SOFTWARE	126
6.3.1.2 DATA ANALYTICS PLATFORMS	126
6.3.1.3 IMAGE PROCESSING SOFTWARE	126
6.4 SERVICES	127
6.4.1 SERVICES, BY TYPE	127
6.4.1.1 MANAGED SERVICES	128
6.4.1.1.1 MANAGED SERVICES, BY TYPE	128
6.4.1.1.1.1 DATA ANALYTICS	128
6.4.1.1.1.2 MONITORING	128
6.4.1.1.1.3 OTHERS	128
6.4.1.2 PROFESSIONAL SERVICES	129

6.4.1.2.1 PROFESSIONAL SERVICES, BY TYPE	129
6.4.1.2.1.1 IMPLEMENTATION	129
6.4.1.2.1.2 CONSULTING AND TRAINING	129
6.4.1.2.1.3 SUPPORT AND MAINTENANCE	129
7 EUROPE ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET, BY TECHNOLOGY	130
7.1 OVERVIEW	131
7.2 MACHINE LEARNING (ML)	132
7.2.1 MACHINE LEARNING(ML), BY TYPE	133
7.2.1.1 PREDICTIVE ANALYTICS	133
7.2.1.2 ANOMALY DETECTION	133
7.2.1.3 DECISION SUPPORT SYSTEMS	133
7.2.1.4 CROP YIELD PREDICTIONS	133
7.3 COMPUTER VISION	134
7.3.1 COMPUTER VISION, BY TYPE	135
7.3.1.1 IMAGE RECOGNITION	135
7.3.1.2 OBJECT/INTRUSION DETECTION	135
7.3.1.3 AUTOMATED GRADING AND SORTING	135
7.3.1.4 PEST & DISEASE DETECTION	135
7.4 NATURAL LANGUAGE PROCESSING (NLP)	136
7.4.1 NATURAL LANGUAGE PROCESSING (NLP), BY TYPE	136
7.4.1.1 CHATBOT AND FARMER SUPPORT	137
7.4.1.2 VOICE RECOGNITION FOR MACHINERY CONTROL	137
7.5 ROBOTICS & AUTOMATION	138
7.5.1 ROBOTICS & AUTOMATION, BY TYPE	138
7.5.1.1 DRONE BASED MONITORING AND SPRAYING	139
7.5.1.2 ROBOTIC HARVESTING	139
7.5.1.3 AUTONOMOUS TRACTOR AND MACHINERY	139
7.6 OTHERS	139
8 EUROPE ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET, BY APPLICATION	140
8.1 OVERVIEW	141
8.2 PRECISION FARMING	143
8.2.1 PRECISION FARMING, BY TYPE	143
8.2.1.1 VARIABLE RATE APPLICATION	144
8.2.1.2 CROP SCOUTING	144
8.2.1.3 FIELD MAPPING	144
8.3 LIVESTOCK MONITORING	144
8.3.1 LIVESTOCK MONITORING, BY TYPE	145
8.3.1.1 HEALTH MONITORING	145
8.3.1.2 BEHAVIOUR ANALYSIS	145
8.3.1.3 AUTOMATED FEEDING SYSTEMS	145
8.4 WEATHER FORECASTING	146
8.4.1 WEATHER FORECASTING, BY TYPE	146
8.4.1.1 CLIMATE PREDICTION	147
8.4.1.2 WEATHER PATTERN ANALYSIS	147
8.5 SOIL MANAGEMENT	147
8.5.1 SOIL MANAGEMENT, BY TYPE	148
8.5.1.1 SOIL CONDITION MONITORING	148

8.5.1.2 IRRIGATION MANAGEMENT	148
8.5.1.3 NUTRIENT MANAGEMENT	148
8.6 CROP HEALTH MONITORING	149
8.6.1 CROP HEALTH MONITORING, BY TYPE	149
8.6.1.1 DISEASE AND PEST DETECTION	150
8.6.1.2 PLANT STRESS ANALYSIS	150
8.6.1.3 NUTRIENT DEFICIENCY IDENTIFICATION	150
8.7 SUPPLY CHAIN OPTIMIZATION	150
8.7.1 SUPPLY CHAIN OPTIMIZATION, BY TYPE	151
8.7.1.1 INVENTORY MANAGEMENT	151
8.7.1.2 TRANSPORTATION AND LOGISTICS	151
8.7.1.3 DEMAND FORECASTING	151
8.8 OTHERS	152
9 EUROPE ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET, BY DEPLOYMENT MODE	153
9.1 OVERVIEW	154
9.2 CLOUD	155
9.3 ON-PREMISE	156
10 EUROPE ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET, BY END USER	157
10.1 OVERVIEW	158
10.2 FARMS	159
10.3 AGRO-TECH COMPANIES	160
10.4 AGRO CHEMICAL COMPANIES	161
10.5 RESEARCH INSTITUTES	162
10.6 OTHERS	163
11 EUROPE ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET, BY REGION	164
11.1 EUROPE	166
11.1.1 ITALY	176
11.1.2 FRANCE	185
11.1.3 GERMANY	194
11.1.4 SPAIN	203
11.1.5 POLAND	212
11.1.6 NETHERLANDS	221
11.1.7 ROMANIA	230
11.1.8 DENMARK	239
11.1.9 BELGIUM	248
11.1.10 GREECE	257
11.1.11 PORTUGAL	265
11.1.12 HUNGARY	273
11.1.13 AUSTRIA	281
11.1.14 IRELAND	290
11.1.15 CZECHIA	298
11.1.16 SWEDEN	306
11.1.17 BULGARIA	314
11.1.18 FINLAND	322
11.1.19 CROATIA	330
11.1.20 LITHUANIA	338
11.1.21 SLOVENIA	346

11.1.22 LATVIA 354
11.1.23 SLOVAKIA 362
11.1.24 CYPRUS 370
11.1.25 ESTONIA 378
11.1.26 LUXEMBOURG 386
11.1.27 MALTA 394
11.1.28 NON-EU EUROPE 402
12 EUROPE ARTIFICIAL INTELLIGENCE IN AGRICULTURE MARKET, COMPANY LANDSCAPE 403
12.1 COMPANY SHARE ANALYSIS: EUROPE 403
13 SWOT ANALYSIS 404
14 COMPANY PROFILE 405
14.1 OPEN TEXT CORPORATION 405
14.1.1 COMPANY SNAPSHOT 405
14.1.2 REVENUE ANALYSIS 405
14.1.3 COMPANY SHARE ANALYSIS 406
14.1.4 PRODUCT PORTFOLIO 406
14.1.5 RECENT DEVELOPMENTS 406
14.2 VALMONT INDUSTRIES, INC. 407
14.2.1 COMPANY SNAPSHOT 407
14.2.2 REVENUE ANALYSIS 407
14.2.3 COMPANY SHARE ANALYSIS 408
14.2.4 SOLUTION PORTFOLIO 408
14.2.5 RECENT DEVELOPMENTS 409
14.3 OPENAI 410
14.3.1 COMPANY SNAPSHOT 410
14.3.2 COMPANY SHARE ANALYSIS 410
14.3.3 PRODUCT PORTFOLIO 410
14.3.4 RECENT DEVELOPMENTS 411
14.4 AGCO CORPORATION 412
14.4.1 COMPANY SNAPSHOT 412
14.4.2 REVENUE ANALYSIS 412
14.4.3 COMPANY SHARE ANALYSIS 413
14.4.4 BRAND PORTFOLIO 413
14.4.5 RECENT DEVELOPMENT 413
14.5 IBM 415
14.5.1 COMPANY SNAPSHOT 415
14.5.2 REVENUE ANALYSIS 415
14.5.3 COMPANY SHARE ANALYSIS 416
14.5.4 SOLUTION PORTFOLIO 416
14.5.5 RECENT DEVELOPMENTS 416
14.6 ADM 418
14.6.1 COMPANY SNAPSHOT 418
14.6.2 REVENUE ANALYSIS 418
14.6.3 PRODUCT PORTFOLIO 419
14.6.4 RECENT DEVELOPMENT 419
14.7 AGEAGLE AERIAL SYSTEMS INC 420
14.7.1 COMPANY SNAPSHOT 420

14.7.2 REVENUE ANALYSIS 420
14.7.3 PRODUCT PORTFOLIO 421
14.7.4 RECENT DEVELOPMENTS 421
14.8 ALPHABET INC. 422
14.8.1 COMPANY SNAPSHOT 422
14.8.2 REVENUE ANALYSIS 422
14.8.3 PRODUCT PORTFOLIO 423
14.8.4 RECENT DEVELOPMENTS 423
14.9 BAYER AG 424
14.9.1 COMPANY SNAPSHOT 424
14.9.2 REVENUE ANALYSIS 424
14.9.3 SOLUTION PORTFOLIO 425
14.9.4 RECENT DEVELOPMENTS 425
14.10 BOWERY FARMING INC. 427
14.10.1 COMPANY SNAPSHOT 427
14.10.2 PRODUCT PORTFOLIO 427
14.10.3 RECENT DEVELOPMENTS 428
14.11 CISCO SYSTEMS, INC. 429
14.11.1 COMPANY SNAPSHOT 429
14.11.2 REVENUE ANALYSIS 429
14.11.3 SOLUTION PORTFOLIO 430
14.11.4 RECENT DEVELOPMENTS 430
14.12 CLIMATE AI 431
14.12.1 COMPANY SNAPSHOT 431
14.12.2 SOLUTION PORTFOLIO 431
14.12.3 RECENT DEVELOPMENT 431
14.13 CNH INDUSTRIAL N.V. 432
14.13.1 COMPANY SNAPSHOT 432
14.13.2 REVENUE ANALYSIS 432
14.13.3 BRAND PORTFOLIO 433
14.13.4 RECENT DEVELOPMENT 433
14.14 CORTEVA 434
14.14.1 COMPANY SNAPSHOT 434
14.14.2 REVENUE ANALYSIS 434
14.14.3 PRODUCT PORTFOLIO 435
14.14.4 RECENT DEVELOPMENTS 435
14.15 DEERE & COMPANY 437
14.15.1 COMPANY SNAPSHOT 437
14.15.2 REVENUE ANALYSIS 437
14.15.3 PRODUCT PORTFOLIO 438
14.15.4 RECENT DEVELOPMENTS 439
14.16 DELAVAL 440
14.16.1 COMPANY SNAPSHOT 440
14.16.2 SOLUTION PORTFOLIO 440
14.16.3 RECENT DEVELOPMENTS 441
14.17 GAMAYA 442
14.17.1 COMPANY SNAPSHOT 442

14.17.2 PRODUCT PORTFOLIO	442
14.17.3 RECENT DEVELOPMENTS	442
14.18 HARVEST CROO ROBOTICS LLC.	443
14.18.1 COMPANY SNAPSHOT	443
14.18.2 PRODUCT PORTFOLIO	443
14.18.3 RECENT DEVELOPMENT	444
14.19 KUBOTA CORPORATION	445
14.19.1 COMPANY SNAPSHOT	445
14.19.2 REVENUE ANALYSIS	446
14.19.3 PRODUCT & SOLUTION PORTFOLIO	446
14.19.4 RECENT DEVELOPMENTS	446
14.20 LELY	447
14.20.1 COMPANY SNAPSHOT	447
14.20.2 REVENUE ANALYSIS	447
14.20.3 SOLUTION PORTFOLIO	448
14.20.4 RECENT DEVELOPMENTS	448
14.21 MICROSOFT	449
14.21.1 COMPANY SNAPSHOT	449
14.21.2 REVENUE ANALYSIS	449
14.21.3 PRODUCT PORTFOLIO	450
14.21.4 RECENT DEVELOPMENTS	450
14.22 ORACLE	452
14.22.1 COMPANY SNAPSHOT	452
14.22.2 REVENUE ANALYSIS	452
14.22.3 SERVICE PORTFOLIO	453
14.22.4 RECENT DEVELOPMENTS	453
14.23 RAVEN INDUSTRIES, INC. (A SUBSIDIARY OF CNH)	454
14.23.1 COMPANY SNAPSHOT	454
14.23.2 SERVICE PORTFOLIO	454
14.23.3 RECENT DEVELOPMENTS	458
14.24 SYNGENTA AG GROUP	459
14.24.1 COMPANY SNAPSHOT	459
14.24.2 REVENUE ANALYSIS	459
14.24.3 PRODUCT PORTFOLIO	460
14.24.4 RECENT DEVELOPMENTS	460
14.25 YANMAR HOLDING CO., LTD.	462
14.25.1 COMPANY SNAPSHOT	462
14.25.2 PRODUCT & SERVICES PORTFOLIO	462
14.25.3 RECENT DEVELOPMENTS	463
15 QUESTIONNAIRE	464
16 RELATED REPORTS	468

Europe Artificial Intelligence in Agriculture Market

Market Report | 2024-07-01 | 468 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@scotts-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@scotts-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="2026-02-07"/>
		Signature	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com