

Precision Livestock Farming Market by System Type (Milking Robotic Systems, Precision Feeding Systems, Livestock Monitoring Systems), Application, Offering, Farm Type (Dairy, Swine, Poultry), Farm Size and Geography - Global Forecast to 2028

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Report description:

The precision livestock farming market is estimated to be USD 6.9 billion in 2023 and projected to reach USD 11.2 billion by 2028, at a CAGR of 10.2%. Increasing need for optimization of dairy and poultry farms and the growing demand for livestock products are the primary drivers for the growth of the precision livestock farming market. Furthermore, increase in the number of dairy farms and rise in the adoption of livestock farming products in developing countries are expected to create opportunities for technology providers in this market. On the other hand, high initial investment, and lack of technological awareness among farmers are expected to restrain the growth of the precision livestock farming market during the forecast period.

The market for poultry monitoring and robotic systems to witness highest CAGR during the forecast period

The poultry monitoring and robotic systems segment is expected to witness the highest growth rate during the forecast period. Robotics is still at a nascent stage in poultry farms, with only a few players catering to the poultry segment. However, this segment is expected to grow at a substantial pace in the near future. Companies such as Farm Automation and Robotics SL (Faromatics), Octopus Biosafety, MSD Animal Health, and Tibot have significantly contributed to poultry farm robotics by introducing innovative products. Poultry monitoring and robotic systems have witnessed steady demand over the last few years due to rising labor costs and efforts to improve poultry farm operations. In poultry farms, advanced camera systems and smart sensors are used to detect the activity of birds, stress among flocks, and monitor the growth of birds. Robotic systems are also being increasingly used for monitoring purposes that provide farm-related information in real-time to farm operators for better decision-making.

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The precision livestock farming software and services market is likely to grow at a higher CAGR between 2023 and 2028. The software and services segment market is expected to grow at the highest CAGR during the forecast period. The technological advancements in software and services used in precision livestock farming management systems are one of the key factors driving the market over the past few years. There is a growing demand for managed and maintenance services owing to the growing demand for livestock farming technology among livestock owners. Precision livestock farming is witnessing accelerated adoption of emerging technologies such as artificial intelligence, machine learning, and the Internet of Things. The connected farming environment has led the farmers to monitor different aspects of the farm and for efficient management. The integration of hardware and software has led to the development of several analytical tools to monitor the health and behavior of animals with a few of them providing suggestions to manage different situations pertaining to animal health.

The market for milk harvesting applications is likely to account for the largest market share from 2023 to 2028.

Milk harvesting application is expected to hold the largest market share among all application segments during the forecast period mainly due to rising demand for milking robots on dairy farms from mid-sized to large-sized farms worldwide. Milk harvesting can be done once or twice a day, depending on the animal and the management practices. Proper hygiene and sanitation are crucial during the milking process to prevent the spread of diseases and ensure milk quality. Dairy farmers must also ensure their animals receive good nutrition and care to maintain optimal milk production. Companies such as DeLaval and GEA Group Aktiengesellschaft are launching new milking machines and robots to meet the growing demand for milk and dairy products and help farmers increase their productivity. These new machines and robots may incorporate innovative technologies and features that improve efficiency, milk quality, and animal welfare.

China is expected to account for the largest share of the precision livestock farming market in Asia Pacific between 2023 and 2028.

Increasing number of dairy cows, the high efficiency of dairy farms, and rising milk production are some of the major factors propelling the growth of the precision livestock farming market in China. The livestock industry in China is organized, and the country has many commercial farms with larger herd sizes. More than 40% of the dairy farms in China have herd size of more than 100 cows, and more than 25% of total farms in China have herd size of more than 500 cows. The country accounts for almost half of the world's pork supply and has huge pig farms in the eastern region. Due to the rapid consolidation of smaller farms in China, the adoption of autonomous livestock technology is expected to increase in the coming years.

The breakup of primaries conducted during the study is depicted below:

-□By Company Type: Tier 1 - 35 %, Tier 2 - 40%, and Tier 3 -25%

-□By Designation: C-Level Executives - 57%, Directors - 29%, and Others - 14%

-□By Region: North America- 30%, South America- 15%, Europe - 20%, APAC - 25%, and RoW - 10%

The major players in the precision livestock farming market are DeLaval (Sweden), Allflex Livestock Intelligence (US), GEA Farm Technology (GEA Group) (Germany), Afimilk (Israel), Lely International (Netherlands), Dairymaster (Ireland), Livestock Improvement Corporation (New Zealand), Fancor (Netherlands), and Fullwood Packo (UK).

Research Coverage

The report segments the precision livestock farming market and forecasts its size, by volume and value, based on region (Americas, Europe, Asia Pacific, and RoW), offering (hardware, software, and services), system type (milking robotic systems, precision feeding systems, livestock monitoring systems, and poultry monitoring and robotic systems), farm type (dairy farms, swine farms, poultry farms, others (equine and bovine farms), farm size (small farms, mid-sized farms, large farms), and application (milk harvesting, feeding management, livestock health and behavior monitoring and others (Calf Management, Genetic Management, Cattle Sorting, Data Analysis, and Financial Management)).

The report also comprehensively reviews market drivers, restraints, opportunities, and challenges in the precision livestock farming market. The report also covers qualitative aspects in addition to the quantitative aspects of these markets.

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Reasons to Buy the Report:

- Analysis of key drivers (Implementation of IoT-and AI-enabled devices for livestock monitoring, transition from precision livestock farming to decision livestock farming, surging labor costs and rising demand for automation in livestock industry, growing demand for protein and dairy products, supporting government policies and incentive programs promoting dairy farm mechanization), restraints (High upfront cost and marginal return on investment, lack of technological awareness among livestock farmers, availability of plant-based alternative products for dairy milk), opportunities (increasing adoption of livestock monitoring technology in developing countries, increasing number of dairy, poultry and swine farms, growing popularity of poultry robots and BSC smart cameras), and challenges (global warming and other environmental concerns, emergence & re-emergence of diseases and environmental concerns) influencing the growth of the precision livestock farming market
- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the precision livestock farming market
- Market Development: Comprehensive information about lucrative markets - the report analyses the precision livestock farming market across varied regions
- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the precision livestock farming market
- Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like DeLaval (Sweden), Allflex Livestock Intelligence (US), GEA Farm Technology (GEA Group) (Germany), Afimilk (Israel), Lely International (Netherlands), Dairymaster (Ireland), Livestock Improvement Corporation (New Zealand), Fancor (Netherlands), and Fullwood Packo (UK). among others in the precision livestock farming market strategies.

Table of Contents:

1□INTRODUCTION□	33
1.1□STUDY OBJECTIVES□	33
1.2□DEFINITION AND SCOPE□	33
1.3□INCLUSIONS AND EXCLUSIONS□	34
1.3.1□INCLUSIONS AND EXCLUSIONS FOR OFFERING SEGMENT□	34
1.3.2□INCLUSIONS AND EXCLUSIONS FOR SYSTEM TYPE SEGMENT□	34
1.3.3□INCLUSIONS AND EXCLUSIONS FOR OTHER SEGMENTS□	35
1.4□STUDY SCOPE□	36
1.4.1□MARKETS COVERED□	36
1.4.2□GEOGRAPHIC SCOPE□	37
1.4.3□YEARS CONSIDERED□	37
1.5□SUMMARY OF CHANGES□	38
1.6□CURRENCY CONSIDERED□	38
1.7□LIMITATIONS□	38
1.8□STAKEHOLDERS□	39
1.9□IMPACT OF RECESSION ON PRECISION LIVESTOCK FARMING MARKET□	39
2□RESEARCH METHODOLOGY□	40
2.1□RESEARCH DATA□	40
FIGURE 1□PRECISION LIVESTOCK FARMING MARKET: RESEARCH DESIGN□	41
2.1.1□SECONDARY DATA□	42
2.1.1.1□List of major secondary sources□	42
2.1.1.2□Secondary sources□	43
2.1.2□PRIMARY DATA□	43
2.1.2.1□Primary interviews with experts□	43
2.1.2.2□Breakdown of primaries□	44
2.1.2.3□Key data from primary sources□	44

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2.1.3	SECONDARY AND PRIMARY RESEARCH	45
2.1.3.1	Key industry insights	45
2.2	MARKET SIZE ESTIMATION	46
2.2.1	BOTTOM-UP APPROACH	46
2.2.1.1	Approach to capture market size by bottom-up analysis	46
FIGURE 2	MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH	46
2.2.2	TOP-DOWN APPROACH	47
2.2.2.1	Approach to capture market size by top-down analysis	47
FIGURE 3	MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH	47
FIGURE 4	MARKET SIZE ESTIMATION: SUPPLY-SIDE APPROACH	48
FIGURE 5	MARKET SIZE ESTIMATION: DEMAND-SIDE APPROACH	49
?		
2.3	RESEARCH ASSUMPTIONS	50
2.4	RISK ASSESSMENT	51
TABLE 1	RISK ASSESSMENT: PRECISION LIVESTOCK FARMING MARKET	51
2.5	MARKET BREAKDOWN AND DATA TRIANGULATION	51
FIGURE 6	DATA TRIANGULATION	52
2.6	RECESSION IMPACT ASSESSMENT: PRECISION LIVESTOCK FARMING MARKET	52
3	EXECUTIVE SUMMARY	53
FIGURE 7	PRECISION LIVESTOCK FARMING MARKET, 2019-2028 (USD MILLION)	54
FIGURE 8	SERVICES SEGMENT TO RECORD HIGHEST CAGR FROM 2023 TO 2028	54
FIGURE 9	LIVESTOCK HEALTH & BEHAVIOR MONITORING TO RECORD HIGHEST CAGR FROM 2023 TO 2028	55
FIGURE 10	MILKING ROBOTIC SYSTEMS TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD	56
FIGURE 11	POULTRY FARMS TO RECORD HIGHEST CAGR DURING FORECAST PERIOD	56
FIGURE 12	LARGE FARMS SECURED LARGEST MARKET SHARE IN 2023	57
FIGURE 13	ASIA PACIFIC LIKELY TO RECORD HIGHEST CAGR DURING FORECAST PERIOD	58
4	PREMIUM INSIGHTS	59
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN PRECISION LIVESTOCK FARMING MARKET	59
FIGURE 14	INCREASING LABOR COST AND CONSOLIDATION OF LIVESTOCK FARMS IN DEVELOPED REGIONS TO PROPEL MARKET	59
4.2	PRECISION LIVESTOCK FARMING MARKET IN ASIA PACIFIC, BY SYSTEM TYPE AND COUNTRY	60
FIGURE 15	PRECISION FEEDING SYSTEMS AND CHINA SECURED LARGEST SHARE OF MARKET IN ASIA PACIFIC IN 2022	60
4.3	PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE	60
FIGURE 16	MILKING ROBOTIC SYSTEMS TO HOLD LARGEST MARKET SHARE DURING 2023-2028	60
4.4	PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION	61
FIGURE 17	MILK HARVESTING TO DOMINATE MARKET DURING 2023-2028	61
4.5	PRECISION LIVESTOCK FARMING MARKET, BY OFFERING	61
FIGURE 18	HARDWARE SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD	61
4.6	PRECISION LIVESTOCK FARMING MARKET, BY FARM TYPE	62
FIGURE 19	DAIRY FARMS TO DOMINATE MARKET DURING FORECAST PERIOD	62
4.7	PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE	62
FIGURE 20	LARGE-SIZED FARMS ANTICIPATED TO LEAD MARKET DURING FORECAST PERIOD	62
4.8	REGIONAL ANALYSIS OF PRECISION LIVESTOCK FARMING MARKET	63
FIGURE 21	EUROPE TO HOLD LARGEST MARKET SHARE FROM 2023 TO 2028	63
?		
5	MARKET OVERVIEW	64
5.1	INTRODUCTION	64
5.2	MARKET DYNAMICS	64

FIGURE 22 PRECISION LIVESTOCK FARMING MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES 64

5.2.1 DRIVERS 65

5.2.1.1 Implementation of IoT- and AI-enabled devices for livestock monitoring 65

FIGURE 23 INSTALLED BASE OF LIVESTOCK RFID TAGS, 2018-2032 (MILLION UNITS) 66

5.2.1.2 Transition from precision livestock farming to decision livestock farming 66

5.2.1.3 Surging labor costs and rising demand for automation in livestock industry 67

5.2.1.4 Increasing focus on real-time monitoring and early disease detection 67

5.2.1.5 Growing demand for protein and dairy products 68

FIGURE 24 MEAT CONSUMPTION PER CAPITA (KG/CAPITA) 68

5.2.1.6 Supporting government policies and incentive programs promoting dairy farm mechanization 69

FIGURE 25 IMPACT ANALYSIS: DRIVERS 70

5.2.2 RESTRAINTS 70

5.2.2.1 High upfront cost and marginal return on investment 70

FIGURE 26 PRICE TREND OF AUTOMATED MILKING ROBOTS (USD THOUSAND) 2017-2025 71

5.2.2.2 Lack of technological awareness among livestock farmers 71

5.2.2.3 Availability of plant-based products as alternative 71

TABLE 2 AVERAGE AMOUNT OF WATER USED AND CO2 PRODUCED BY DIFFERENT TYPES OF MILK, PER LITER, 2020 72

FIGURE 27 TOTAL NUMBER OF PARTICIPANTS IN VEGANUARY PROGRAM, 2014-2022 73

FIGURE 28 IMPACT ANALYSIS: RESTRAINTS 73

5.2.3 OPPORTUNITIES 73

5.2.3.1 Rising adoption of livestock monitoring technology in developing countries 73

TABLE 3 PRECISION LIVESTOCK FARMING: GLOBAL TECHNOLOGY ADOPTION 74

5.2.3.2 Increasing number of dairy, poultry, and swine farms 74

FIGURE 29 CATTLE INVENTORY OF MAJOR COUNTRIES IN 2021 (MILLION UNITS) 75

5.2.3.3 Growing popularity of poultry robots and BSC smart cameras 75

FIGURE 30 IMPACT ANALYSIS: OPPORTUNITIES 76

5.2.4 CHALLENGES 76

5.2.4.1 Global warming and other environmental concerns 76

TABLE 4 EMISSIONS INTENSITY OF AGRICULTURAL COMMODITIES (KG CO2 EQ/KG) 77

5.2.4.2 Emergence and re-emergence of diseases and environmental concerns 77

FIGURE 31 IMPACT ANALYSIS: CHALLENGES 78

?

5.3 SUPPLY CHAIN ANALYSIS 78

FIGURE 32 PRECISION LIVESTOCK FARMING MARKET: SUPPLY CHAIN ANALYSIS 78

5.4 PRECISION LIVESTOCK FARMING MARKET ECOSYSTEM 80

TABLE 5 PRECISION LIVESTOCK FARMING MARKET: ECOSYSTEM 80

FIGURE 33 PRECISION LIVESTOCK FARMING MARKET: KEY PLAYERS IN ECOSYSTEM 81

5.5 PRICING ANALYSIS: AVERAGE SELLING PRICE TRENDS 81

5.5.1 PRICING ANALYSIS: LIVESTOCK MONITORING DEVICES 81

TABLE 6 AVERAGE SELLING PRICE OF LIVESTOCK MONITORING DEVICES 81

FIGURE 34 ASP TREND FOR RFID TAGS USED FOR LIVESTOCK MONITORING 82

5.5.2 PRICING ANALYSIS: MILKING ROBOTS 82

FIGURE 35 ASP TREND FOR MILKING ROBOTS 82

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES 83

FIGURE 36 PRECISION LIVESTOCK FARMING MARKET: REVENUE SHIFT 83

5.7 TECHNOLOGY ANALYSIS 83

5.7.1 BODY CONDITIONING SCORING SYSTEMS 83

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5.7.2	AGRICULTURAL DRONES	84
5.7.3	AUTOMATIC CATTLE TRAFFIC MANAGEMENT SYSTEMS	84
5.7.4	PARLOR MONITORING SYSTEMS	84
5.7.5	TECHNOLOGIES ADOPTED IN DAIRY AND POULTRY FARMS	85
5.8	PORTER'S FIVE FORCES ANALYSIS	86
FIGURE 37	PRECISION LIVESTOCK FARMING MARKET: PORTER'S FIVE FORCES ANALYSIS	86
FIGURE 38	PORTER'S FIVE FORCES ANALYSIS	87
TABLE 7	PRECISION LIVESTOCK FARMING MARKET: IMPACT OF PORTER'S FIVE FORCES ANALYSIS	87
5.8.1	THREAT OF NEW ENTRANTS	87
5.8.2	THREAT OF SUBSTITUTES	88
5.8.3	BARGAINING POWER OF SUPPLIERS	88
5.8.4	BARGAINING POWER OF BUYERS	88
5.8.5	INTENSITY OF COMPETITIVE RIVALRY	88
5.9	KEY STAKEHOLDERS AND BUYING CRITERIA	89
5.9.1	KEY STAKEHOLDERS IN BUYING PROCESS	89
FIGURE 39	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATIONS	89
TABLE 8	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE APPLICATIONS	89
5.9.2	BUYING CRITERIA	90
FIGURE 40	KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS	90
TABLE 9	KEY BUYING CRITERIA FOR TOP THREE APPLICATIONS	90
5.10	CASE STUDY ANALYSIS	90
5.10.1	IMPROVEMENT IN MILKING PROCEDURE AT NEWLANDS FAMILY FARM, US	90
TABLE 10	DELAVAL VMS V300 MILKING ROBOTS ENHANCE OVERALL MILKING PROCESS	90
5.10.2	INCREASE IN LABOR PRODUCTIVITY AT VAN ADRICHEM'S FAMILY DAIRY FARM, AUSTRALIA	91
TABLE 11	LELY ASTRONAUT MILKING ROBOTS IMPROVE LABOR EFFICIENCY	91
5.10.3	ADOPTION OF COW MONITORS TO BOOST DAIRY PRODUCTION	91
TABLE 12	ALLFLEX MONITORS RUMINATION AND ACTIVITY OF COWS	91
5.11	TRADE ANALYSIS	92
TABLE 13	IMPORT DATA FOR MILKING MACHINES, HS CODE: 843410, BY COUNTRY, 2017-2021 (USD MILLION)	92
FIGURE 41	MILKING MACHINES IMPORT VALUES FOR MAJOR COUNTRIES (2017-2021)	92
TABLE 14	EXPORT DATA FOR MILKING MACHINES, HS CODE: 843410, BY COUNTRY, 2017-2021 (USD MILLION)	93
FIGURE 42	MILKING MACHINES EXPORT VALUES FOR MAJOR COUNTRIES (2017-2021)	93
5.12	PATENT ANALYSIS	94
FIGURE 43	PRECISION LIVESTOCK FARMING MARKET: NUMBER OF PATENTS GRANTED (2013-2022)	94
FIGURE 44	PRECISION LIVESTOCK FARMING MARKET: REGIONAL ANALYSIS OF PATENTS GRANTED (2013-2022)	95
TABLE 15	PRECISION LIVESTOCK FARMING MARKET: LIST OF KEY PATENTS (2019-2022)	95
5.13	KEY CONFERENCES AND EVENTS, (2023-2024)	96
TABLE 16	PRECISION LIVESTOCK FARMING MARKET: DETAILED LIST OF CONFERENCES AND EVENTS	96
5.14	TARIFF AND REGULATORY LANDSCAPE	97
5.14.1	TARIFFS	97
TABLE 17	MFN TARIFFS FOR MILKING MACHINES EXPORTED BY FRANCE	97
5.14.2	REGULATIONS	98
5.14.2.1	North America	98
5.14.2.2	Australia	98
5.14.2.3	Europe	99
5.14.3	STANDARDS	99
5.14.3.1	International Organization of Standardization	99

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6 PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE 100

6.1 INTRODUCTION 101

TABLE 18 PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION) 101

FIGURE 45 POULTRY MONITORING AND ROBOTIC SYSTEMS SEGMENT TO RECORD HIGHEST CAGR FROM 2023 TO 2028 101

TABLE 19 PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION) 102

6.2 MILKING ROBOTIC SYSTEMS 102

TABLE 20 MILKING ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION) 103

TABLE 21 MILKING ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION) 103

TABLE 22 MILKING ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION) 103

FIGURE 46 PRECISION LIVESTOCK FARMING MARKET FOR MILKING ROBOTIC SYSTEMS IN ASIA PACIFIC TO DISPLAY HIGHEST CAGR FROM 2023 TO 2028 104

TABLE 23 MILKING ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION) 104

TABLE 24 MILKING ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2019-2022 (USD MILLION) 105

TABLE 25 MILKING ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2023-2028 (USD MILLION) 105

6.2.1 SINGLE-STALL MILKING UNITS 105

6.2.1.1 Used across small and mid-sized dairy farms 105

6.2.2 MULTI-STALL MILKING UNITS 106

6.2.2.1 Suitable for mid-sized dairy farms 106

6.2.3 AUTOMATED MILKING ROTARY 106

6.2.3.1 Provides information necessary to monitor and analyze herd performance 106

6.3 PRECISION FEEDING SYSTEMS 106

6.3.1 INCREASING ADOPTION OF FEEDING ROBOTS TO MITIGATE LABOR SHORTAGE ISSUE 106

TABLE 26 PRECISION FEEDING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION) 107

FIGURE 47 SERVICES SEGMENT TO RECORD HIGHEST CAGR IN MARKET FOR PRECISION FEEDING SYSTEMS DURING 2023-2028 107

TABLE 27 PRECISION FEEDING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION) 108

TABLE 28 PRECISION FEEDING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM TYPE, 2019-2022 (USD MILLION) 108

TABLE 29 PRECISION FEEDING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM TYPE, 2023-2028 (USD MILLION) 109

TABLE 30 PRECISION FEEDING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2019-2022 (USD MILLION) 109

FIGURE 48 SMALL FARMS SEGMENT TO EXHIBIT HIGHEST CAGR IN MARKET FOR PRECISION FEEDING SYSTEMS DURING FORECAST PERIOD 109

TABLE 31 PRECISION FEEDING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2023-2028 (USD MILLION) 110

TABLE 32 PRECISION FEEDING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION) 110

TABLE 33 PRECISION FEEDING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION) 111

6.4 LIVESTOCK MONITORING SYSTEMS 111

6.4.1 GROWING DEVELOPMENT OF ACTIVE RFID TAGS IN MEDIUM-SIZED AND LARGE LIVESTOCK FARMS 111

TABLE 34 LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION) 112

TABLE 35 LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION) 112

TABLE 36 LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 113

FIGURE 49 FEEDING MANAGEMENT SEGMENT TO DISPLAY HIGHEST CAGR IN MARKET FOR LIVESTOCK IDENTIFICATION, MONITORING, AND TRACKING SYSTEMS DURING FORECAST PERIOD 113

TABLE 37 LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 114

TABLE 38 LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM TYPE, 2019-2022 (USD MILLION) 114

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TABLE 39	LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM TYPE, 2023-2028 (USD MILLION)	114
TABLE 40	LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2019-2022 (USD MILLION)	115
TABLE 41	LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2023-2028 (USD MILLION)	115
TABLE 42	LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION)	115
TABLE 43	LIVESTOCK MONITORING SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION)	116
6.5	POULTRY MONITORING AND ROBOTIC SYSTEMS	116
6.5.1	RIISING EFFORTS TO IMPROVE POULTRY FARM OPERATIONS	116
TABLE 44	POULTRY MONITORING AND ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION)	117
FIGURE 50	SOFTWARE SEGMENT TO REGISTER HIGHEST CAGR IN MARKET FOR POULTRY MONITORING AND ROBOTIC SYSTEM DURING FORECAST PERIOD	117
TABLE 45	POULTRY MONITORING AND ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION)	118
TABLE 46	POULTRY MONITORING AND ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	118
TABLE 47	POULTRY MONITORING AND ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	118
TABLE 48	POULTRY MONITORING AND ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2019-2022 (USD MILLION)	119
TABLE 49	POULTRY MONITORING AND ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2023-2028 (USD MILLION)	119
TABLE 50	POULTRY MONITORING AND ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION)	120
TABLE 51	POULTRY MONITORING AND ROBOTIC SYSTEMS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION)	120
7	PRECISION LIVESTOCK FARMING MARKET, BY OFFERING	121
7.1	INTRODUCTION	122
TABLE 52	PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION)	122
FIGURE 51	PRECISION LIVESTOCK MARKET FOR SERVICES TO RECORD AT HIGHEST CAGR DURING FORECAST PERIOD	123
TABLE 53	PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION)	123
?		
7.2	HARDWARE	124
TABLE 54	HARDWARE: PRECISION LIVESTOCK FARMING MARKET, BY TYPE, 2019-2022 (USD MILLION)	124
TABLE 55	HARDWARE: PRECISION LIVESTOCK FARMING MARKET, BY TYPE, 2023-2028 (USD MILLION)	125
TABLE 56	HARDWARE: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	125
TABLE 57	HARDWARE: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	125
TABLE 58	HARDWARE: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION)	126
FIGURE 52	PRECISION LIVESTOCK MARKET FOR HARDWARE IN ASIA PACIFIC EXPECTED TO RECORD HIGHEST CAGR DURING FORECAST PERIOD	126
TABLE 59	HARDWARE: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION)	126
7.2.1	ROBOTICS HARDWARE	127
7.2.1.1	Increasing herd size of dairy farms and rising labor costs	127
7.2.2	RFID TAGS & READERS	127
7.2.2.1	Rising adoption of low-frequency RFID tags to identify & track livestock	127

7.2.3	SENSORS	128
7.2.3.1	Ensure continuous productivity of healthy herd	128
7.2.3.2	Temperature sensors	128
7.2.3.3	Accelerometer sensors	128
7.2.3.4	Motion sensors	129
7.2.3.5	Environmental humidity sensors	129
7.2.3.6	Others	129
7.2.4	CAMERAS	129
7.2.4.1	Increasing awareness among ranchers regarding for remote livestock monitoring technology	129
7.2.5	GPS	130
7.2.5.1	Surging demand for livestock location tracking	130
7.2.6	OTHERS	130
7.3	SOFTWARE	130
TABLE 60 SOFTWARE: PRECISION LIVESTOCK FARMING MARKET, BY TYPE, 2019-2022 (USD MILLION)		131
FIGURE 53 PRECISION LIVESTOCK MARKET FOR AI AND DATA ANALYTICS TO DISPLAY HIGHEST CAGR DURING FORECAST PERIOD		131
TABLE 61 SOFTWARE: PRECISION LIVESTOCK FARMING MARKET, BY TYPE, 2023-2028 (USD MILLION)		132
TABLE 62 SOFTWARE: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)		132
TABLE 63 SOFTWARE: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)		132
TABLE 64 SOFTWARE: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION)		133
TABLE 65 SOFTWARE: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION)		133
7.3.1	ON-CLOUD	133
7.3.1.1	Provides flexibility and scalability and is affordable	133
7.3.2	ON-PREMISE	134
7.3.2.1	Beneficial for organizations migrating from one system to another	134
7.3.3	AI AND DATA ANALYTICS	134
7.3.3.1	Drives decision-making of livestock farm owners	134
7.4	SERVICES	135
7.4.1	INCREASING DEPLOYMENT OF LIVESTOCK FARMING DEVICES AND EQUIPMENT	135
TABLE 66 SERVICES: PRECISION LIVESTOCK FARMING MARKET, BY TYPE, 2019-2022 (USD MILLION)		135
FIGURE 54 SYSTEM INTEGRATION & CONSULTING SERVICES TO CAPTURE LARGEST MARKET SHARE IN 2028		135
TABLE 67 SERVICES: PRECISION LIVESTOCK FARMING MARKET, BY TYPE, 2023-2028 (USD MILLION)		136
TABLE 68 SERVICES: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)		136
TABLE 69 SERVICES: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)		136
TABLE 70 SERVICES: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION)		137
TABLE 71 SERVICES: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION)		137
7.4.2	SYSTEM INTEGRATION & CONSULTING	137
7.4.3	MANAGED SERVICES	138
7.4.4	MAINTENANCE & SUPPORT SERVICES	138
8	PRECISION LIVESTOCK FARMING MARKET, BY FARM TYPE	139
8.1	INTRODUCTION	140
TABLE 72 PRECISION LIVESTOCK FARMING MARKET, BY FARM TYPE, 2019-2022 (USD MILLION)		140
FIGURE 55 POULTRY FARMS TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD		140
TABLE 73 PRECISION LIVESTOCK FARMING MARKET, BY FARM TYPE, 2023-2028 (USD MILLION)		141
8.2	DAIRY FARMS	141
8.2.1	SIGNIFICANT USE OF ROBOTIC MILKING SYSTEMS IN LARGE FARMS	141
TABLE 74 DAIRY FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)		142

TABLE 75	DAIRY FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	142
8.3	SWINE FARMS	143
8.3.1	HIGH ADOPTION OF RFID AND CAMERAS TO MONITOR SWINE HEALTH AND BODY TEMPERATURE	143
TABLE 76	SWINE FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	143
FIGURE 56	SWINE FARMS TO RECORD HIGHEST CAGR IN MARKET FOR LIVESTOCK IDENTIFICATION, MONITORING, AND TRACKING SYSTEMS	144
TABLE 77	SWINE FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	144
8.4	POULTRY FARMS	144
8.4.1	PREDOMINANT USE OF SEVERAL FARMING SOLUTIONS INCLUDING CAMERAS IN POULTRY FARMS	144
TABLE 78	POULTRY FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	145
TABLE 79	POULTRY FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	145
8.5	OTHERS	145
TABLE 80	OTHERS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	146
TABLE 81	OTHERS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	146
9	PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE	147
9.1	INTRODUCTION	148
TABLE 82	PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2019-2022 (USD MILLION)	148
FIGURE 57	PRECISION LIVESTOCK FARMING MARKET FOR SMALL FARMS TO EXHIBIT HIGHEST CAGR FROM 2023 TO 2028	148
TABLE 83	PRECISION LIVESTOCK FARMING MARKET, BY FARM SIZE, 2023-2028 (USD MILLION)	149
9.2	SMALL FARMS	149
9.2.1	COMMON IN DEVELOPING SOUTH AND SOUTHEAST ASIAN COUNTRIES	149
TABLE 84	SMALL FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	150
TABLE 85	SMALL FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	150
9.3	MID-SIZED FARMS	150
9.3.1	MOST COMMONLY OBSERVED IN MID-SIZED FARMS	150
TABLE 86	MID-SIZED FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	151
TABLE 87	MID-SIZED FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	151
9.4	LARGE FARMS	152
9.4.1	OFFER ECONOMIES OF SCALE TO FARM OWNERS INVOLVED IN CAPITAL-INTENSIVE FARMING	152
TABLE 88	LARGE FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	152
TABLE 89	LARGE FARMS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	152
?		
10	PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION	153
10.1	INTRODUCTION	154
TABLE 90	PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	154
FIGURE 58	LIVESTOCK BEHAVIOR & HEALTH MONITORING TO RECORD HIGHEST CAGR FROM 2023 TO 2028	155
TABLE 91	PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	155
10.2	MILK HARVESTING	156
10.2.1	RIISING DEMAND FOR MILKING ROBOTS ON DAIRY FARMS	156
TABLE 92	MILK HARVESTING: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION)	156
TABLE 93	MILK HARVESTING: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION)	157
10.3	FEEDING MANAGEMENT	157
10.3.1	GROWING AWARENESS AMONG LIVESTOCK FARM OWNERS FOR BETTER MANAGEMENT OF FEED INVENTORY AND ANIMAL DIETS	157
TABLE 94	FEEDING MANAGEMENT: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION)	158
TABLE 95	FEEDING MANAGEMENT: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION)	158
10.4	LIVESTOCK BEHAVIOR AND HEALTH MONITORING	159

10.4.1 INCREASING AWARENESS AMONG RANCHERS AND DAIRY FARM OWNERS TO TRACK HEAT DETECTION AND EARLY DISEASE IDENTIFICATION 159

TABLE 96 LIVESTOCK HEALTH & BEHAVIOR MONITORING: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION) 159

FIGURE 59 EUROPE TO LEAD MARKET FOR LIVESTOCK BEHAVIOR & HEALTH MONITORING DURING FORECAST PERIOD 160

TABLE 97 LIVESTOCK HEALTH & BEHAVIOR MONITORING: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION) 160

10.5 OTHERS 161

TABLE 98 OTHERS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION) 161

FIGURE 60 ASIA PACIFIC TO RECORD HIGHEST CAGR IN MARKET FOR OTHER APPLICATIONS DURING FORECAST PERIOD 161

TABLE 99 OTHERS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION) 162

11 PRECISION LIVESTOCK FARMING MARKET, BY GEOGRAPHY 163

11.1 INTRODUCTION 164

FIGURE 61 REGIONAL SNAPSHOT: INDIA TO WITNESS HIGHEST CAGR FROM 2023 TO 2028 164

TABLE 100 PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION) 165

TABLE 101 PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION) 165

?

11.2 AMERICAS 166

FIGURE 62 AMERICAS: PRECISION LIVESTOCK FARMING MARKET SNAPSHOT 166

11.2.1 AMERICAS: RECESSION IMPACT 167

FIGURE 63 AMERICAS: IMPACT OF RECESSION (PRE-RECESSION SCENARIO VS. POST-RECESSION SCENARIO) 167

TABLE 102 AMERICAS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION) 167

TABLE 103 AMERICAS: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION) 168

TABLE 104 AMERICAS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION) 168

TABLE 105 AMERICAS: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION) 168

TABLE 106 AMERICAS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION) 169

TABLE 107 AMERICAS: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION) 169

TABLE 108 AMERICAS: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 170

TABLE 109 AMERICAS: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 170

11.2.2 NORTH AMERICA 170

TABLE 110 NORTH AMERICA: PRECISION LIVESTOCK FARMING MARKET, BY COUNTRY, 2019-2022 (USD MILLION) 171

TABLE 111 NORTH AMERICA: PRECISION LIVESTOCK FARMING MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 171

TABLE 112 NORTH AMERICA: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION) 172

TABLE 113 NORTH AMERICA: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION) 172

11.2.2.1 US 173

11.2.2.1.1 US to remain largest market for precision livestock farming in region 173

11.2.2.2 Canada 173

11.2.2.2.1 Substantial demand generated by dairy industry 173

11.2.2.3 Mexico 174

11.2.2.3.1 Growing cattle industry 174

11.2.3 SOUTH AMERICA 174

TABLE 114 SOUTH AMERICA: PRECISION LIVESTOCK FARMING MARKET, BY COUNTRY, 2019-2022 (USD MILLION) 175

TABLE 115 SOUTH AMERICA: PRECISION LIVESTOCK FARMING MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 175

TABLE 116 SOUTH AMERICA: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION) 175

TABLE 117 SOUTH AMERICA: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION) 176

?

11.2.3.1 Brazil 176

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11.2.3.1.1	Rapid adoption of precision livestock farming technology by commercial farmers	176
11.2.3.2	Argentina	177
11.2.3.2.1	Large cattle population to accelerate demand for livestock identification, monitoring, and tracking	177
11.2.3.3	Rest of South America	177
11.3	EUROPE	177
FIGURE 64	EUROPE: PRECISION LIVESTOCK FARMING MARKET SNAPSHOT	178
11.3.1	EUROPE: RECESSION IMPACT	178
FIGURE 65	EUROPE: IMPACT OF RECESSION (PRE-RECESSION SCENARIO VS. POST-RECESSION SCENARIO)	179
TABLE 118	EUROPE: PRECISION LIVESTOCK FARMING MARKET, BY COUNTRY, 2019-2022 (USD MILLION)	179
TABLE 119	EUROPE: PRECISION LIVESTOCK FARMING MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	180
TABLE 120	EUROPE: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	180
TABLE 121	EUROPE: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	181
TABLE 122	EUROPE: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION)	181
TABLE 123	EUROPE: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION)	181
TABLE 124	EUROPE: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	182
TABLE 125	EUROPE: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	182
11.3.2	UK	183
11.3.2.1	Established milk and meat industries to support market growth	183
11.3.3	GERMANY	183
11.3.3.1	Largest dairy producer in region to propel market	183
11.3.4	FRANCE	184
11.3.4.1	Growing number of livestock farms to contribute to market growth	184
11.3.5	DENMARK	184
11.3.5.1	High adoption of automated milk harvesting systems to drive market	184
11.3.6	SWEDEN	184
11.3.6.1	Higher adoption of precision livestock farming technologies to fuel market	184
11.3.7	NETHERLANDS	185
11.3.7.1	Surging adoption of precision livestock farming solutions in milk harvesting and feeding management applications to drive market	185
11.3.8	REST OF EUROPE	185
?		
11.4	ASIA PACIFIC	185
FIGURE 66	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET SNAPSHOT	186
11.4.1	ASIA PACIFIC: RECESSION IMPACT	187
FIGURE 67	ASIA PACIFIC: IMPACT OF RECESSION (PRE-RECESSION SCENARIO VS. POST-RECESSION SCENARIOS)	187
TABLE 126	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET, BY COUNTRY, 2019-2022 (USD MILLION)	187
TABLE 127	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	188
TABLE 128	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	188
TABLE 129	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	189
TABLE 130	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION)	189
TABLE 131	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION)	189
TABLE 132	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	190
TABLE 133	ASIA PACIFIC: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	190
11.4.2	CHINA	190
11.4.2.1	Modern farm practices for sustainable development in dairy farm yield	190
11.4.3	JAPAN	191
11.4.3.1	Aging agriculture workforce and government support	191

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11.4.4	INDIA	191
11.4.4.1	Proliferation of commercial farms with deployment of modern technologies	191
11.4.5	AUSTRALIA & NEW ZEALAND	192
11.4.5.1	High awareness among dairy farm owners	192
11.4.6	REST OF ASIA PACIFIC	192
11.5	ROW	193
TABLE 134	ROW: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2019-2022 (USD MILLION)	193
TABLE 135	ROW: PRECISION LIVESTOCK FARMING MARKET, BY REGION, 2023-2028 (USD MILLION)	193
TABLE 136	ROW: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2019-2022 (USD MILLION)	194
TABLE 137	ROW: PRECISION LIVESTOCK FARMING MARKET, BY SYSTEM TYPE, 2023-2028 (USD MILLION)	194
TABLE 138	ROW: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2019-2022 (USD MILLION)	194
TABLE 139	ROW: PRECISION LIVESTOCK FARMING MARKET, BY OFFERING, 2023-2028 (USD MILLION)	195
TABLE 140	ROW: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	195
TABLE 141	ROW: PRECISION LIVESTOCK FARMING MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	195
11.5.1	MIDDLE EAST	196
11.5.1.1	Growing adoption of smart agriculture solutions by large farmlands	196
11.5.2	AFRICA	196
11.5.2.1	Investments toward development of new commercial farming enterprises	196
12	COMPETITIVE LANDSCAPE	197
12.1	INTRODUCTION	197
12.2	STRATEGIES ADOPTED BY KEY PLAYERS	197
TABLE 142	OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS	197
12.3	MARKET SHARE ANALYSIS	199
FIGURE 68	PRECISION LIVESTOCK FARMING MARKET: MARKET SHARE ANALYSIS	200
TABLE 143	PRECISION LIVESTOCK FARMING MARKET: INTENSITY OF COMPETITIVE RIVALRY	200
12.4	REVENUE ANALYSIS	201
FIGURE 69	PRECISION LIVESTOCK FARMING MARKET: REVENUE SHARE ANALYSIS OF TOP FIVE PLAYERS (2018-2022)	201
12.5	COMPANY EVALUATION QUADRANT	202
12.5.1	STARS	202
12.5.2	PERVASIVE PLAYERS	202
12.5.3	EMERGING LEADERS	202
12.5.4	PARTICIPANTS	202
FIGURE 70	PRECISION LIVESTOCK FARMING MARKET (GLOBAL): COMPANY EVALUATION QUADRANT	203
12.6	COMPANY FOOTPRINT	204
TABLE 144	COMPANY FOOTPRINT	204
TABLE 145	COMPANY FOOTPRINT, BY SYSTEM TYPE	205
TABLE 146	COMPANY FOOTPRINT, BY APPLICATION	206
TABLE 147	COMPANY FOOTPRINT, BY REGION	207
12.7	STARTUPS/SMES/ EVALUATION QUADRANT	207
12.7.1	PROGRESSIVE COMPANIES	207
12.7.2	RESPONSIVE COMPANIES	207
12.7.3	DYNAMIC COMPANIES	208
12.7.4	STARTING BLOCKS	208
FIGURE 71	PRECISION LIVESTOCK FARMING MARKET: EVALUATION QUADRANT FOR STARTUPS/SMES	208
TABLE 148	PRECISION LIVESTOCK FARMING MARKET: DETAILED LIST OF KEY STARTUPS/SMES	209
TABLE 149	PRECISION LIVESTOCK FARMING MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES	210
?		

12.8COMPETITIVE SCENARIOS AND TRENDS210

12.8.1PRECISION LIVESTOCK FARMING MARKET210

12.8.1.1Product/Service launches210

TABLE 150PRECISION LIVESTOCK FARMING MARKET: PRODUCT/SOLUTION/SERVICE LAUNCHES211

12.8.1.2Deals214

TABLE 151PRECISION LIVESTOCK FARMING MARKET: DEALS214

12.8.1.3Other developments217

TABLE 152OTHER DEVELOPMENTS217

Precision Livestock Farming Market by System Type (Milking Robotic Systems, Precision Feeding Systems, Livestock Monitoring Systems), Application, Offering, Farm Type (Dairy, Swine, Poultry), Farm Size and Geography - Global Forecast to 2028

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