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Global Plant Phenotyping Market Size study, by Products (Equipment, Software, Sensors), by Services (Measurement Acquisition & Data Analysis, Statistical Analysis) and by Regional Forecasts 2018-2025

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Abstracts

Global Plant Phenotyping Market to reach USD 288.2 billion by 2025.

Global Plant Phenotyping Market valued approximately USD 113.4 billion in 2016 is anticipated to grow with a healthy growth rate of more than 10.92% over the forecast period 2018-2025. With the increasing population, the need to grow high-yielding crops for the fulfillment of food security needs has also increased. High frequency of extreme weather situations and global warming may affect livestock adversely. Thus, livestock like crop, forestry, and aquaculture productivity needs to be secured for future. Which is the major factor driving the growth of the Global Plant Phenotyping Market. Furthermore, the requirement of new methodology and techniques to enhance productivity and quality of crop and to mitigate the risk by various environmental challenges are aiding to the growth of the market. Innovations in imaging techniques facilitate better assessment of plant characteristics for the development of better crop breeds suitable for the particular environment. Imaging techniques assist in detecting optical properties of plants by using various technologies like imaging spectroscopy, infrared imaging, fluorescence imaging, and visible light imaging, whose, data sorts from macroscopic to molecular scale. A phenotype refers to the composite of an organism's observable characteristics or traits, such as its morphology, development, biochemical or physiological properties, behavior, and products of behavior. A phenotype is a result produced by the expression of an organism's genetic code, its genotype, as well as the influence of environmental factors and the interactions between the two. The basic use of plant phenotype is to gain the knowledge of various plants and to utilize this knowledge for manufacturing crops that have high productivity

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and sustainability.

The regional analysis of Global Plant Phenotyping Market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. North America is the leading/significant region across the world in terms of market share. Whereas, owing to the countries such as China, Japan, and India, Asia Pacific region is anticipated to exhibit higher growth rate / CAGR over the forecast period 2018-2025.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Products:

Equipment

Software

Sensors

By Services:

Measurement Acquisition & Data Analysis

Statistical Analysis

By Regions:

North America

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- U.S.
- Canada
- Europe
  - UK
  - Germany
- Asia Pacific
  - China
  - India
  - Japan
- Latin America
  - Brazil
  - Mexico
- Rest of the World

Furthermore, years considered for the study are as follows:

- Historical year – 2015, 2016
- Base year – 2017
- Forecast period – 2018 to 2025

The industry is seeming to be fairly competitive. Some of the leading market players include Lemnatec, Delta-T Devices Ltd., Saga Robotics, Heinz Walz, Phenospex, Keygene, Phenomix, SMO bvba, Cropdesign (BASF SE), Qubit Systems Inc. (Qubit

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Phenomics), Conviron, Photon Systems Instruments, WPS B.V., EarthSense, Inc., WIWAM, Rothamsted Research Limited, VBCF and so on. Acquisitions and effective mergers are some of the strategies adopted by the key manufacturers. New product launches and continuous technological innovations are the key strategies adopted by the major players.

Target Audience of the Global Plant Phenotyping Market in Market Study:

- Key Consulting Companies & Advisors
- Large, medium-sized, and small enterprises
- Venture capitalists
- Value-Added Resellers (VARs)
- Third-party knowledge providers
- Investment bankers
- Investors

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Contents

CHAPTER 1. GLOBAL PLANT PHENOTYPING MARKET DEFINITION AND SCOPE

1.1. Research Objective
1.2. Market Definition
1.3. Scope of The Study
1.4. Years Considered for The Study
1.5. Currency Conversion Rates
1.6. Report Limitation

CHAPTER 2. RESEARCH METHODOLOGY

2.1. Research Process
  2.1.1. Data Mining
  2.1.2. Analysis
  2.1.3. Market Estimation
  2.1.4. Validation
  2.1.5. Publishing
2.2. Research Assumption

CHAPTER 3. EXECUTIVE SUMMARY

3.1. Global & Segmental Market Estimates & Forecasts, 2015-2025 (USD Billion)
3.2. Key Trends

CHAPTER 4. GLOBAL PLANT PHENOTYPING MARKET DYNAMICS

4.1. Growth Prospects
  4.1.1. Drivers
  4.1.2. Restraints
  4.1.3. Opportunities
4.2. Industry Analysis
  4.2.1. Porter’s 5 Force Model
  4.2.2. PEST Analysis
  4.2.3. Value Chain Analysis
4.3. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL PLANT PHENOTYPING MARKET, BY PRODUCTS

+44 20 8123 2220
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5.1. Market Snapshot
5.2. Market Performance - Potential Model
5.3. Global Plant Phenotyping Market, Sub Segment Analysis
5.3.1. Equipment
5.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
5.3.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
5.3.2. Software
5.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
5.3.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
5.3.2.3. Sub Segment breakdown estimates & forecasts, 2015-2025 (USD Million)
5.3.2.3.1 Image Analysis
5.3.2.3.2 Data Acquisition
5.3.2.3.3 System Control
5.3.2.3.4 Other Software
5.3.3. Sensors
5.3.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)
5.3.3.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
5.3.3.3. Sub Segment breakdown estimates & forecasts, 2015-2025 (USD Million)
5.3.3.3.1 Image Sensors
5.3.3.3.2 Ndvi Sensors
5.3.3.3.3 Temperature Sensors
5.3.3.3.4 Other Sensors

CHAPTER 6. GLOBAL PLANT PHENOTYPING MARKET, BY SERVICES

6.1. Market Snapshot
6.2. Market Performance - Potential Model
6.3. Global Plant Phenotyping Market, Sub Segment Analysis
6.3.1. Measurement Acquisition & Data Analysis
6.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
6.3.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
6.3.2. Statistical Analysis
6.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
6.3.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 7. GLOBAL PLANT PHENOTYPING MARKET, BY REGIONAL ANALYSIS

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7.1. Plant Phenotyping Market, Regional Market Snapshot (2015-2025)
7.2. North America Plant Phenotyping Market Snapshot
7.2.1. U.S.
7.2.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.2.1.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.2.1.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.2.2. Canada
7.2.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.2.2.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.2.2.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.3. Europe Plant Phenotyping Market Snapshot
7.3.1. U.K.
7.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.3.1.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.3.1.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.3.2. Germany
7.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.3.2.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.3.2.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.3.3. France
7.3.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.3.3.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.3.3.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.3.4. Rest of Europe
7.3.4.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.3.4.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.3.4.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.4. Asia Plant Phenotyping Market Snapshot
7.4.1. China
7.4.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.4.1.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.4.1.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.4.2. India
7.4.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.4.2.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.4.2.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.4.3. Japan
7.4.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.4.3.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)

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7.4.3.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.4.4. Rest of Asia Pacific
7.4.4.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.4.4.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.4.4.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.5. Latin America Plant Phenotyping Market Snapshot
7.5.1. Brazil
7.5.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.5.1.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.5.1.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.5.2. Mexico
7.5.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.5.2.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.5.2.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.6. Rest of The World
7.6.1. South America
7.6.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.6.1.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.6.1.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.6.2. Middle East and Africa
7.6.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
7.6.2.2. Products breakdown estimates & forecasts, 2015-2025 (USD Billion)
7.6.2.3. Services breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Company Market Share (Subject to Data Availability)
8.2. Top Market Strategies
8.3. Company Profiles
8.3.1. Lemnatec
8.3.1.1. Overview
8.3.1.2. Financial (Subject to Data Availability)
8.3.1.3. Product Summary
8.3.1.4. Recent Developments
8.3.2. Delta-T Devices Ltd.
8.3.3. Saga Robotics
8.3.4. Heinz Walz
8.3.5. Phenospex
8.3.6. Keygene

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8.3.7. Phenomix
8.3.8. SMO bvba
8.3.9. Cropdesign (BASF SE)
8.3.10. Qubit Systems Inc. (Qubit Phenomics)
8.3.11. Conviron
8.3.12. Photon Systems Instruments
8.3.13. WPS B.V.
8.3.14. EarthSense, Inc.
8.3.15. WIWAM
8.3.16. Rothamsted Research Limited
8.3.17. VBCF

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