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Vertical Farming Market by Growth Mechanism (Hydroponics, Aeroponics, Aquaponics), Structure (Building-based and Shipping container-based), Crop Type, Offering (Lighting, Sensors, Climate Control, Software, Services) & Region - Global Forecast to 2028

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Abstracts

The vertical farming market is estimated to be USD 5.1 billion in 2023, and it is expected to to reach USD 15.3 billion by 2028; growing at a CAGR of 24.7% from 2023 to 2028. The vertical farming market is set to experience remarkable growth in the coming years. One of the driving factors behind this growth is the escalating demand for fresh, locally produced food. As consumers become more conscious of the origin and quality of their food, the desire for farm-to-table options continues to surge. Vertical farming presents an innovative and sustainable solution to meet this demand.

Hardware segment to account largest market share between 2023 and 2028

Based on offering, hardware segment is likely to dominate vertical farming market throughout the forecast period. Hardware component such as LED lighting, sensors, and climate control offer notable advantages in vertical farming. LED lighting surpasses traditional options in terms of energy efficiency, resulting in reduced operating costs and lower heat production, which is particularly beneficial in vertical farms. Sensors play a crucial role in monitoring various factors like temperature, humidity, light levels, and nutrient levels, enabling optimal growing conditions for plants. This optimized environment can lead to higher crop yields and improved quality. Additionally, climate control systems ensure a consistent and tailored environment for plant growth, which is vital for their overall well-being. Furthermore, these systems help in safeguarding

vertical farms from pests and diseases, thereby ensuring a healthy and productive cultivation environment. The incorporation of LED lighting, sensors, and climate control hardware devices in vertical farming significantly enhances efficiency, productivity, and plant health.

Aquaponics growth mechanism Segment to offer lucrative growth during forecast period

The growth potential for aquaponics in vertical farming is substantial due to several factors. Aquaponics involves the symbiotic cultivation of plants and fish in a closed system, where fish waste provides nutrients for the plants, and the plants filter the water for the fish. This technique offers significant advantages for the vertical farming industry. One key advantage is water conservation. Aquaponics is highly efficient in its water usage, consuming up to 90% less water compared to traditional farming methods. The water is continuously recycled and reused within the system, minimizing waste and promoting sustainability. Furthermore, aquaponics demonstrates high productivity, generating substantial yields of food in a compact area. The integrated system optimizes the use of resources such as water and nutrients, leading to efficient growth and harvest.

Lettuce is among most cultivated crops across different vertical farms

Lettuce holds a significant share in vertical farms for several reasons, making it one of the most cultivated crops in this farming method compared to others. Lettuce is a leafy green vegetable that has a relatively short growth cycle and doesn't require excessive vertical space. This makes it well-suited for vertical farming systems, where crops are grown in stacked layers or vertical towers. Lettuce's compact size allows for efficient use of the available vertical space, maximizing the yield per square meter. Further, lettuce has a high demand in the market, particularly in urban areas where vertical farms are commonly located. It is a staple ingredient in salads, sandwiches, and wraps, making it a popular choice for health-conscious consumers seeking fresh, locally-grown produce. The proximity of vertical farms to urban centers allows for quicker delivery and access to consumers, ensuring the lettuce reaches its market in a fresher state compared to long-distance transportation from traditional farms.

North America likely to dominate vertical farming market during the forecast period

The vertical farming market in the North America is experiencing dominance due to several factors. Firstly, the region's large and expanding population has created a high demand for fresh and locally sourced produce. Vertical farming addresses this demand

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by enabling year-round cultivation, independent of weather conditions.Additionally, the Americas boast a robust economy and access to substantial venture capital, which fuels the growth of the vertical farming industry. This financial support provides resources for infrastructure development and technological advancements.Moreover, certain governments in the North America are actively supporting the vertical farming sector by offering financial incentives and regulatory assistance. This governmental backing creates a conducive environment for industry growth and innovation.

In the process of determining and verifying the market size for several segments and subsegments gathered through secondary research, extensive primary interviews have been conducted with key officials in the vertical farming market. Following is the breakup of the profiles of primary participants for the report.

By Company Type: Tier 1 – 40 %, Tier 2 – 45%, and Tier 3 – 15%

By Designation: C-Level Executives – 40%, Directors – 30%, and Others – 30%

By Region: North America – 20%, APAC – 35%, Europe – 30%, and RoW – 15%

The report profiles key players in the vertical farming market and analyzes their market shares. Players profiled in this report are Signify (Netherlands), Osram (Germany), Freight Farms (US), AeroFarms (US), sky Greens (Singapore), Spread (Japan), Plenty (US), Valoya (Finland), Everlight Electronics (Taiwan), Heliospectra AB (Sweden), Green Sense Farms (US), Agrilution (Germany), American Hydroponics (US), Urban Crop solutions (Belgium), Vertical Farm Systems (Australia), bowery Farming (US), Agricool (France), Sananbio (US), Growpod Solutions (US), Infarm (Germany), Altius Farms (US), Intelligent Growth Solutions (Scotland), 4D BIOS INC (US), Future Crops (Netherlands), Bright Farms (US), Swegreen (Sweden), and Vertical Future Ltd (UK).

Research Coverage

This report segments the vertical farming market based on structure, growth mechanisms, offerings, crop types, and regions. It also describes major drivers, restraints, challenges, and opportunities about this market, as well as includes market share analysis, value chain analysis, porter’s five forces analysis, trade analysis, ecosystem, technological trends, pricing analysis, key patents, standards and frameworks, and case studies/use cases.

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Reasons to Buy This Report

1. Analysis of key drivers (High yield associated with vertical farming over conventional farming, Advancements in light-emitting diode (LED) technology, Year-round crop production irrespective of weather conditions, Requirement of minimum resources, Limited availability of arable land), restraints (Lack of technically skilled workforce and limited crop types, High start-up costs), opportunities (Reduced environmental impact from agriculture by adoption of vertical farming, Potential market opportunities in Asia Pacific and Middle East, Cannabis cultivation through vertical farming), and challenges (Maintenance of temperature, humidity, and air circulation in a vertical farm, Higher energy consumption leading to high operational costs, Vertical farming on a large scale) influencing the growth of the vertical farming market.
2. Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the vertical farming market
3. Market Development: Comprehensive information about lucrative markets – the report analyses the vertical farming market across varied regions
4. Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the vertcial farming market
5. Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like Signify Holding (Netherlands), ams-OSRAM AG (Germany), Freight Farms, Inc. (US), AeroFarms (US), Sky Greens (Singapore), Spread Co., Ltd. (Japan), Plenty Unlimited Inc. (US), Valoya (Finland), EVERLIGHT ELECTRONICS CO., LTD. (Taiwan), and Heliospectra (Sweden) among others in the vertical farming market strategies.

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Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES
1.2 MARKET DEFINITION
1.3 STUDY SCOPE
  1.3.1 MARKETS COVERED
  1.3.2 INCLUSIONS AND EXCLUSIONS
  1.3.3 GEOGRAPHICAL SCOPE
  1.3.4 YEARS CONSIDERED
1.4 CURRENCY CONSIDERED
1.5 UNITS CONSIDERED
1.6 LIMITATIONS
1.7 STAKEHOLDERS
1.8 SUMMARY OF CHANGES
  1.8.1 IMPACT OF RECESSION

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA
FIGURE 1 VERTICAL FARMING MARKET: PROCESS FLOW OF MARKET SIZE ESTIMATION
FIGURE 2 VERTICAL FARMING MARKET: RESEARCH DESIGN
  2.1.1 SECONDARY DATA
    2.1.1.1 Secondary sources
  2.1.2 PRIMARY DATA
    2.1.2.1 Breakdown of primaries
    2.1.2.2 Key data from primary sources
    2.1.2.3 Key industry insights
  2.1.3 SECONDARY AND PRIMARY RESEARCH
2.2 MARKET SIZE ESTIMATION
FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 (SUPPLY SIDE): REVENUE GENERATED BY COMPANIES FROM HARDWARE/SOFTWARE/SERVICES OFFERED IN VERTICAL FARMING MARKET
FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 (DEMAND SIDE)
  2.2.1 BOTTOM-UP APPROACH
    2.2.1.1 Approach to derive market size using bottom-up analysis

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FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH
2.2.2 TOP-DOWN APPROACH
2.2.2.1 Approach to derive market size using top-down analysis
FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH
2.3 MARKET BREAKDOWN AND DATA TRIANGULATION
FIGURE 7 DATA TRIANGULATION
2.4 RESEARCH ASSUMPTIONS
FIGURE 8 RESEARCH ASSUMPTIONS
2.5 RISK ASSESSMENT
TABLE 1 RISK FACTOR ANALYSIS
2.6 RECESSION IMPACT ANALYSIS

3 EXECUTIVE SUMMARY

FIGURE 9 HYDROPONICS SEGMENT TO DOMINATE VERTICAL FARMING MARKET DURING FORECAST PERIOD
FIGURE 10 SHIPPING-BASED VERTICAL FARMS SEGMENT TO EXHIBIT HIGHER GROWTH DURING FORECAST PERIOD
FIGURE 11 LETTUCE LIKELY TO BE MOST COMMONLY GROWN CROP ACROSS DIFFERENT VERTICAL FARMS
FIGURE 12 SERVICES TO BE FASTEST-GROWING SEGMENT IN VERTICAL FARMING MARKET DURING FORECAST PERIOD
FIGURE 13 ASIA PACIFIC TO DOMINATE VERTICAL FARMING MARKET DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN VERTICAL FARMING MARKET
FIGURE 14 INCREASE IN INVESTMENTS AND PARTNERSHIPS BETWEEN FARMS AND TECHNOLOGY PROVIDERS TO BOOST VERTICAL FARMING MARKET GROWTH
4.2 ASIA PACIFIC: VERTICAL FARMING MARKET, BY GROWTH MECHANISM AND STRUCTURE
FIGURE 15 HYDROPONICS GROWTH MECHANISM AND BUILDING-BASED VERTICAL FARMS SEGMENTS TO HOLD LARGEST MARKET SHARES IN ASIA PACIFIC IN 2028
4.3 VERTICAL FARMING MARKET, BY OFFERING
FIGURE 16 HARDWARE SEGMENT TO DOMINATE MARKET DURING FORECAST

+44 20 8123 2220
info@marketpublishers.com

PERIOD
4.4 VERTICAL FARMING MARKET, BY GROWTH MECHANISM
FIGURE 17 HYDROPONICS SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD
4.5 VERTICAL FARMING MARKET, BY STRUCTURE
FIGURE 18 BUILDING-BASED VERTICAL FARMS SEGMENT TO HOLD LARGEST MARKET SHARE FROM 2023 TO 2028
4.6 VERTICAL FARMING MARKET, BY CROP TYPE
FIGURE 19 LETTUCE SEGMENT TO LEAD MARKET DURING FORECAST PERIOD
4.7 VERTICAL FARMING MARKET, BY REGION
FIGURE 20 ASIA PACIFIC TO ACCOUNT FOR LARGEST SHARE OF VERTICAL FARMING MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 MARKET DYNAMICS
FIGURE 21 VERTICAL FARMING MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES
5.1.1 DRIVERS
FIGURE 22 ANALYSIS OF IMPACT OF DRIVERS ON VERTICAL FARMING MARKET
5.1.1.1 Potential for higher yields compared with conventional farming methods
5.1.1.2 Continuous advancements in light-emitting diode (LED) technology
5.1.1.3 Year-round crop production, irrespective of weather conditions
FIGURE 23 DAMAGE AND LOSS TO CROPS, BY TYPE OF CALAMITY, 2003–2016
5.1.1.4 Requirement for minimum resources
FIGURE 24 GLOBAL POPULATION GROWTH, 2015–2050
5.1.1.5 Limited arable land
5.1.2 RESTRAINTS
FIGURE 25 ANALYSIS OF IMPACT OF RESTRAINTS ON VERTICAL FARMING MARKET
5.1.2.1 Lack of technically skilled workforce and choice of limited cultivable crops
5.1.2.2 High initial capital investment requirements
5.1.3 OPPORTUNITIES
FIGURE 26 ANALYSIS OF IMPACT OF OPPORTUNITIES ON VERTICAL FARMING MARKET
5.1.3.1 Ability to reduce ecological footprint of agriculture
5.1.3.2 Potential market opportunities in Asia Pacific and Middle East
5.1.3.3 Viability to cultivate Cannabis using vertical farming technique
5.1.4 CHALLENGES

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FIGURE 27 ANALYSIS OF IMPACT OF CHALLENGES ON VERTICAL FARMING MARKET
5.1.4.1 Maintenance of temperature, humidity, and air circulation in vertical farms
5.1.4.2 Energy-intensive nature of vertical farming, leading to high operational costs
5.1.4.3 Difficulty in achieving economies of scale
5.2 SUPPLY CHAIN ANALYSIS
FIGURE 28 VERTICAL FARMING MARKET: SUPPLY CHAIN ANALYSIS
5.3 ECOSYSTEM MAPPING
TABLE 2 VERTICAL FARMING MARKET: ROLE OF KEY PLAYERS IN ECOSYSTEM
FIGURE 29 VERTICAL FARMING MARKET: SYSTEM MANUFACTURERS AND CROP PRODUCERS
5.4 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS
FIGURE 30 REVENUE SHIFTS AND NEW REVENUE POCKETS FOR VERTICAL FARMING MARKET PLAYERS
5.5 TECHNOLOGY ANALYSIS
5.6 PRICING ANALYSIS
FIGURE 31 AVERAGE SELLING PRICE OF LED LIGHTING SOLUTIONS, BY POWER OUTPUT
5.7 AVERAGE SELLING PRICE OF LED LIGHTING SOLUTIONS OFFERED BY KEY PLAYERS
FIGURE 32 AVERAGE SELLING PRICE OF LED LIGHTING SOLUTIONS OFFERED BY KEY PLAYERS
5.8 PORTER’S FIVE FORCES ANALYSIS
FIGURE 33 VERTICAL FARMING MARKET: PORTER’S FIVE FORCES ANALYSIS
FIGURE 34 IMPACT ANALYSIS OF PORTER’S FIVE FORCES
TABLE 3 VERTICAL FARMING MARKET: PORTER’S FIVE FORCES ANALYSIS
5.8.1 INTENSITY OF COMPETITIVE RIVALRY
5.8.2 THREAT OF SUBSTITUTES
5.8.3 BARGAINING POWER OF BUYERS
5.8.4 BARGAINING POWER OF SUPPLIERS
5.8.5 THREAT OF NEW ENTRANTS
5.9 CASE STUDY ANALYSIS
5.9.1 LJUSG?RDA IMPLEMENTED HELIOSPECTRA’S LED LIGHTING IN INDOOR GROWTH FACILITY
5.9.2 HORTIPOLARIS CULTIVATION AND RESEARCH FACILITY IMPLEMENTED FLUENCE LED LIGHTING SOLUTION
5.9.3 AEROFARMS USES ADVANCED TECHNOLOGIES TO TAKE VERTICAL FARMING TO NEW HEIGHTS
5.9.4 BENEFITS OF IOT DEPLOYMENT IN INDOOR VERTICAL FARMS

+44 20 8123 2220
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5.9.5 RIAT USED SIGNIFY'S LED LIGHTING SOLUTION TO GROW TOMATOES AND CUCUMBERS IN VERTICAL FARMS
5.9.6 KARMA FARM ADOPTED HYDROPONIC SOLUTION FOR YEAR-ROUND CROP PRODUCTION
5.10 PATENT ANALYSIS
FIGURE 35 NUMBER OF PATENTS GRANTED WORLDWIDE FROM 2013 TO 2022
TABLE 4 TOP 20 PATENT OWNERS FROM 2013 TO 2022
FIGURE 36 TOP 10 COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS FROM 2013 TO 2022
5.10.1 VERTICAL FARMING MARKET: LIST OF KEY PATENTS
TABLE 5 VERTICAL FARMING MARKET: LIST OF KEY PATENTS
5.11 TRADE ANALYSIS
TABLE 6 IMPORT DATA FOR PRODUCTS COVERED UNDER HS CODE 8424, BY COUNTRY, 2018–2022 (USD MILLION)
FIGURE 37 IMPORT DATA FOR MAJOR COUNTRIES, 2018–2022
TABLE 7 EXPORT DATA FOR PRODUCTS COVERED UNDER HS CODE 8424, BY COUNTRY, 2018–2022 (USD MILLION)
FIGURE 38 EXPORT DATA FOR MAJOR COUNTRIES, 2018–2022
5.12 KEY CONFERENCES AND EVENTS, 2023–2024
TABLE 8 VERTICAL FARMING MARKET: DETAILED LIST OF RELATED CONFERENCES AND EVENTS
5.13 KEY STAKEHOLDERS AND BUYING CRITERIA
5.13.1 KEY STAKEHOLDERS IN BUYING PROCESS
FIGURE 39 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 OFFERINGS
TABLE 9 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP 3 OFFERINGS
5.13.2 BUYING CRITERIA
FIGURE 40 KEY BUYING CRITERIA FOR TOP 3 OFFERINGS
TABLE 10 KEY BUYING CRITERIA FOR TOP 3 OFFERINGS
5.14 TARIFFS AND REGULATORY FRAMEWORK
5.14.1 TARIFFS
TABLE 11 TARIFF, BY COUNTRY
5.14.2 REGULATIONS
TABLE 12 VERTICAL FARMING MARKET: REGULATIONS
5.14.3 STANDARDS

6 VERTICAL FARMING MARKET, BY GROWTH MECHANISM

+44 20 8123 2220
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6.1 INTRODUCTION
FIGURE 41 HYDROPONICS SEGMENT TO DOMINATE VERTICAL FARMING MARKET DURING FORECAST PERIOD
TABLE 13 VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 14 VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
6.2 HYDROPONICS
6.2.1 YEAR-ROUND CULTIVATION MECHANISM SUITABLE FOR GROWING CROPS IN LOCATIONS WITH LIMITED ARABLE LAND
TABLE 15 HYDROPONICS: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 16 HYDROPONICS: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)
6.3 AEROPONICS
6.3.1 USES PATENTED TECHNOLOGY TO ACHIEVE HIGH PRODUCTIVITY WITHIN SHORT TIMEFRAME
TABLE 17 AEROPONICS: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 18 AEROPONICS: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)
6.4 AQUAPONICS
6.4.1 ELIMINATES USAGE OF PESTICIDES AND FERTILIZERS
TABLE 19 AQUAPONICS: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 20 AQUAPONICS: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)

7 VERTICAL FARMING MARKET, BY STRUCTURE

7.1 INTRODUCTION
FIGURE 42 BUILDING-BASED VERTICAL FARMS TO ACCOUNT FOR LARGER MARKET SHARE BY 2028
TABLE 21 VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 22 VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
7.2 BUILDING-BASED VERTICAL FARMS
7.2.1 COUNTRIES WITH UNSUPPORTED CROP ENVIRONMENTS TEND TO BE

+44 20 8123 2220
info@marketpublishers.com

EARLY ADOPTERS OF BUILDING-BASED VERTICAL FARMS
TABLE 23 BUILDING-BASED VERTICAL FARMS: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 24 BUILDING-BASED VERTICAL FARMS: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)
7.3 SHIPPING CONTAINER-BASED VERTICAL FARMS
7.3.1 EMERGING VERTICAL FARMING SOLUTIONS FOR SMALL FARMERS
TABLE 25 SHIPPING CONTAINER-BASED VERTICAL FARMS: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 26 SHIPPING CONTAINER-BASED VERTICAL FARMS: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)

8 VERTICAL FARMING MARKET, BY CROP TYPE

8.1 INTRODUCTION
FIGURE 43 LETTUCE SEGMENT TO LEAD VERTICAL FARMING MARKET DURING FORECAST PERIOD
TABLE 27 VERTICAL FARMING MARKET, BY CROP TYPE, 2019–2022 (MILLION METRIC TONS)
TABLE 28 VERTICAL FARMING MARKET, BY CROP TYPE, 2023–2028 (MILLION METRIC TONS)
TABLE 29 VERTICAL FARMING MARKET, BY REGION, 2019–2022 (MILLION METRIC TONS)
TABLE 30 VERTICAL FARMING MARKET, BY REGION, 2023–2028 (MILLION METRIC TONS)
8.2 VEGETABLES
8.2.1 LETTUCE PREDOMINANTLY CULTIVATED IN VERTICAL FARMS
8.3 FRUITS
8.3.1 STRAWBERRIES AND POMEGRANATES AMONG MOST GROWN FRUITS IN VERTICAL FARMS

9 VERTICAL FARMING MARKET, BY OFFERING

9.1 INTRODUCTION
FIGURE 44 HARDWARE SEGMENT TO ACCOUNT FOR LARGEST SHARE OF VERTICAL FARMING MARKET BY 2028
TABLE 31 VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 32 VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD

+44 20 8123 2220
info@marketpublishers.com

MILLION)
FIGURE 45 LIGHTING SEGMENT TO DOMINATE VERTICAL FARMING HARDWARE MARKET DURING FORECAST PERIOD
TABLE 33 HARDWARE: VERTICAL FARMING MARKET, BY TYPE, 2019–2022 (USD MILLION)
TABLE 34 HARDWARE: VERTICAL FARMING MARKET, BY TYPE, 2023–2028 (USD MILLION)
TABLE 35 HARDWARE: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 36 HARDWARE: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)
9.2 HARDWARE
9.2.1 LIGHTING
TABLE 37 HARDWARE: VERTICAL FARMING MARKET FOR LIGHTING, BY REGION, 2019–2022 (USD MILLION)
TABLE 38 HARDWARE: VERTICAL FARMING MARKET FOR LIGHTING, BY REGION, 2023–2028 (USD MILLION)
9.2.1.1 Lighting fixtures
9.2.1.1.1 Electrical devices used to create artificial light in vertical farms using electric lamps
9.2.1.2 Lighting control
9.2.1.2.1 Connected energy-saving lighting systems prove to be ideal for vertical farming
9.2.2 HYDROPONIC COMPONENTS
9.2.2.1 Utilize nutrient-laden water appropriately to ensure high crop growth
TABLE 39 HARDWARE: VERTICAL FARMING MARKET FOR HYDROPONIC COMPONENTS, BY REGION, 2019–2022 (USD MILLION)
TABLE 40 HARDWARE: VERTICAL FARMING MARKET FOR HYDROPONIC COMPONENTS, BY REGION, 2023–2028 (USD MILLION)
9.2.3 CLIMATE CONTROL
9.2.3.1 Use effective HVAC systems to ensure high productivity through precise temperature control
TABLE 41 HARDWARE: VERTICAL FARMING MARKET FOR CLIMATE CONTROL, BY REGION, 2019–2022 (USD MILLION)
TABLE 42 HARDWARE: VERTICAL FARMING MARKET FOR CLIMATE CONTROL, BY REGION, 2023–2028 (USD MILLION)
9.2.4 SENSORS
9.2.4.1 Provide necessary data points for accurate monitoring to maximize productivity and farm efficiency

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TABLE 43 HARDWARE: VERTICAL FARMING MARKET FOR SENSORS, BY REGION, 2019–2022 (USD MILLION)
TABLE 44 HARDWARE: VERTICAL FARMING MARKET FOR SENSORS, BY REGION, 2023–2028 (USD MILLION)
9.3 SOFTWARE
9.3.1 FACILITATE CALCULATIONS AND MANAGEMENT PROCESSES IN AGRICULTURE FOR INCREASED EFFICIENCY
TABLE 45 SOFTWARE: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 46 SOFTWARE: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)
9.4 SERVICES
9.4.1 INCLUDE CONSULTING, MAINTENANCE, AND SUPPORT SERVICES
TABLE 47 SERVICES: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 48 SERVICES: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)

10 VERTICAL FARMING MARKET, BY REGION

10.1 INTRODUCTION
FIGURE 46 SINGAPORE TO BE FASTEST-GROWING VERTICAL FARMING MARKET DURING FORECAST PERIOD
TABLE 49 VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 50 VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)
10.2 NORTH AMERICA
FIGURE 47 NORTH AMERICA: VERTICAL FARMING MARKET SNAPSHOT
10.2.1 NORTH AMERICA: RECESSION IMPACT
FIGURE 48 NORTH AMERICA: IMPACT OF RECESSION
TABLE 51 NORTH AMERICA: VERTICAL FARMING MARKET, BY COUNTRY, 2019–2022 (USD MILLION)
TABLE 52 NORTH AMERICA: VERTICAL FARMING MARKET, BY COUNTRY, 2023–2028 (USD MILLION)
TABLE 53 NORTH AMERICA: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 54 NORTH AMERICA: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 55 NORTH AMERICA: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)

+44 20 8123 2220
info@marketpublishers.com

TABLE 56 NORTH AMERICA: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 57 NORTH AMERICA: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 58 NORTH AMERICA: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)
TABLE 59 NORTH AMERICA: VERTICAL FARMING MARKET, BY HARDWARE TYPE, 2019–2022 (USD MILLION)
TABLE 60 NORTH AMERICA: VERTICAL FARMING MARKET, BY HARDWARE TYPE, 2023–2028 (USD MILLION)
10.2.2 US
10.2.2.1 Increasing number of vertical farms and partnerships among companies to boost market growth
TABLE 61 US: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 62 US: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 63 US: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 64 US: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 65 US: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 66 US: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)
10.2.3 CANADA
10.2.3.1 Presence of technologically advanced vertical farming companies to foster market growth
TABLE 67 CANADA: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 68 CANADA: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 69 CANADA: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 70 CANADA: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 71 CANADA: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 72 CANADA: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028

+44 20 8123 2220
info@marketpublishers.com

(USD MILLION)
10.2.4 MEXICO
10.2.4.1 Population growth and deteriorating cultivation zones to drive adoption of vertical farming
10.3 EUROPE
FIGURE 49 EUROPE: VERTICAL FARMING MARKET SNAPSHOT
10.3.1 EUROPE: RECESSION IMPACT
FIGURE 50 EUROPE: IMPACT OF RECESSION
TABLE 73 EUROPE: VERTICAL FARMING MARKET, BY COUNTRY, 2019–2022 (USD MILLION)
TABLE 74 EUROPE: VERTICAL FARMING MARKET, BY COUNTRY, 2023–2028 (USD MILLION)
TABLE 75 EUROPE: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 76 EUROPE: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 77 EUROPE: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 78 EUROPE: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 79 EUROPE: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 80 EUROPE: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)
TABLE 81 EUROPE: VERTICAL FARMING MARKET, BY HARDWARE TYPE, 2019–2022 (USD MILLION)
TABLE 82 EUROPE: VERTICAL FARMING MARKET, BY HARDWARE TYPE, 2023–2028 (USD MILLION)
10.3.2 EU4
10.3.2.1 Emergence of various vertical farming startups to drive market
TABLE 83 EU4: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 84 EU4: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 85 EU4: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 86 EU4: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 87 EU4: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD

MILLION)
TABLE 88 EU4: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)
10.3.3 UK
10.3.3.1 High demand for locally sourced and sustainable food options to favor market growth
TABLE 89 UK: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 90 UK: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 91 UK: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 92 UK: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 93 UK: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 94 UK: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)
10.3.4 SCANDINAVIA
10.3.4.1 Need to reduce transportation footprint of food to lead to adoption of vertical farming practices
10.3.5 NETHERLANDS
10.3.5.1 Partnerships and collaborations between leading vertical farming companies to drive market
10.3.6 REST OF EUROPE
10.4 ASIA PACIFIC
FIGURE 51 ASIA PACIFIC: VERTICAL FARMING MARKET SNAPSHOT
10.4.1 ASIA PACIFIC: RECESSION IMPACT
FIGURE 52 ASIA PACIFIC: IMPACT OF RECESSION
TABLE 95 ASIA PACIFIC: VERTICAL FARMING MARKET, BY COUNTRY, 2019–2022 (USD MILLION)
TABLE 96 ASIA PACIFIC: VERTICAL FARMING MARKET, BY COUNTRY, 2023–2028 (USD MILLION)
TABLE 97 ASIA PACIFIC: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 98 ASIA PACIFIC: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 99 ASIA PACIFIC: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)

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TABLE 100 ASIA PACIFIC: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 101 ASIA PACIFIC: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 102 ASIA PACIFIC: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)
TABLE 103 ASIA PACIFIC: VERTICAL FARMING MARKET, BY HARDWARE TYPE, 2019–2022 (USD MILLION)
TABLE 104 ASIA PACIFIC: VERTICAL FARMING MARKET, BY HARDWARE TYPE, 2023–2028 (USD MILLION)
10.4.2 CHINA
10.4.2.1 Increasing urban population and declining agricultural land to create opportunities for market players
TABLE 105 CHINA: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 106 CHINA: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 107 CHINA: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 108 CHINA: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 109 CHINA: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 110 CHINA: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)
10.4.3 JAPAN
10.4.3.1 Presence of multiple vertical farming companies to support market growth
TABLE 111 JAPAN: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 112 JAPAN: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 113 JAPAN: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 114 JAPAN: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 115 JAPAN: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 116 JAPAN: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)

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10.4.4 SINGAPORE
10.4.4.1 Focus on achieving food security to accelerate adoption of vertical farming
10.4.5 REST OF ASIA PACIFIC
10.5 REST OF THE WORLD
10.5.1 REST OF THE WORLD: RECESSION IMPACT
FIGURE 53 REST OF THE WORLD: IMPACT OF RECESSION
TABLE 117 REST OF THE WORLD: VERTICAL FARMING MARKET, BY REGION, 2019–2022 (USD MILLION)
TABLE 118 REST OF THE WORLD: VERTICAL FARMING MARKET, BY REGION, 2023–2028 (USD MILLION)
TABLE 119 REST OF THE WORLD: VERTICAL FARMING MARKET, BY STRUCTURE, 2019–2022 (USD MILLION)
TABLE 120 REST OF THE WORLD: VERTICAL FARMING MARKET, BY STRUCTURE, 2023–2028 (USD MILLION)
TABLE 121 REST OF THE WORLD: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2019–2022 (USD MILLION)
TABLE 122 REST OF THE WORLD: VERTICAL FARMING MARKET, BY GROWTH MECHANISM, 2023–2028 (USD MILLION)
TABLE 123 REST OF THE WORLD: VERTICAL FARMING MARKET, BY OFFERING, 2019–2022 (USD MILLION)
TABLE 124 REST OF THE WORLD: VERTICAL FARMING MARKET, BY OFFERING, 2023–2028 (USD MILLION)
TABLE 125 REST OF THE WORLD: VERTICAL FARMING MARKET, BY HARDWARE TYPE, 2019–2022 (USD MILLION)
TABLE 126 REST OF THE WORLD: VERTICAL FARMING MARKET, BY HARDWARE TYPE, 2023–2028 (USD MILLION)
10.5.2 MIDDLE EAST
10.5.2.1 Lack of arable land to result in adoption of vertical farming
10.5.3 AFRICA
10.5.3.1 Scarcity of freshwater and arable land to boost demand for vertical farming
10.5.4 SOUTH AMERICA
10.5.4.1 Emergence of startups involved in vertical farming to boost market growth

11 COMPETITIVE LANDSCAPE

11.1 OVERVIEW
TABLE 127 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS
11.2 MARKET SHARE AND RANKING ANALYSIS
TABLE 128 VERTICAL FARMING MARKET: DEGREE OF COMPETITION (LIGHTING

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PROVIDERS), 2022
FIGURE 54 COMPANY MARKET SHARE ANALYSIS, 2022
TABLE 129 VERTICAL FARMING MARKET: DEGREE OF COMPETITION (CROP PRODUCERS), 2022
11.3 5-YEAR COMPANY REVENUE ANALYSIS
FIGURE 55 REVENUE ANALYSIS FOR KEY COMPANIES, 2018–2022
11.4 VERTICAL FARMING MARKET: COMPANY EVALUATION MATRIX (FOR OEMS AND SYSTEM INTEGRATORS), 2022
FIGURE 56 VERTICAL FARMING MARKET: COMPANY EVALUATION MATRIX (FOR OEMS AND SYSTEM INTEGRATORS), 2022
11.4.1 STARS
11.4.2 PERVASIVE PLAYERS
11.4.3 EMERGING LEADERS
11.4.4 PARTICIPANTS
11.5 COMPETITIVE BENCHMARKING
TABLE 130 COMPANY FOOTPRINT
TABLE 131 COMPANY OFFERING FOOTPRINT
TABLE 132 COMPANY REGION FOOTPRINT
11.6 VERTICAL FARMING MARKET: STARTUPS/SMES COMPANY EVALUATION MATRIX (FOR CROP PRODUCERS), 2022
FIGURE 57 VERTICAL FARMING MARKET: STARTUPS/SMES COMPANY EVALUATION MATRIX (FOR CROP PRODUCERS), 2022
11.6.1 PROGRESSIVE COMPANIES
11.6.2 RESPONSIVE COMPANIES
11.6.3 DYNAMIC COMPANIES
11.6.4 STARTING BLOCKS
TABLE 133 VERTICAL FARMING MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES (CROP PRODUCERS)
11.7 COMPETITIVE SCENARIOS AND TRENDS
11.7.1 PRODUCT LAUNCHES
TABLE 134 VERTICAL FARMING MARKET: PRODUCT LAUNCHES AND DEVELOPMENTS
11.7.2 DEALS
TABLE 135 VERTICAL FARMING MARKET: DEALS
11.7.3 EXPANSIONS
TABLE 136 VERTICAL FARMING MARKET: OTHERS

12 COMPANY PROFILES

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(Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats))*
12.1 INTRODUCTION
12.2 KEY PLAYERS
12.2.1 SIGNIFY HOLDING
TABLE 137 SIGNIFY HOLDING: COMPANY OVERVIEW
FIGURE 58 SIGNIFY HOLDING: COMPANY SNAPSHOT
TABLE 138 SIGNIFY HOLDING: PRODUCT/SOLUTION/SERVICE OFFERINGS
TABLE 139 SIGNIFY HOLDING: DEALS
12.2.2 AMS-OSRAM AG
TABLE 140 AMS-OSRAM AG: COMPANY OVERVIEW
FIGURE 59 AMS-OSRAM AG: COMPANY SNAPSHOT
TABLE 141 AMS-OSRAM AG: PRODUCT/SOLUTION/SERVICE OFFERINGS
TABLE 142 AMS-OSRAM AG: PRODUCT LAUNCHES
TABLE 143 AMS-OSRAM AG: DEALS
12.2.3 FREIGHT FARMS, INC.
TABLE 144 FREIGHT FARMS, INC.: COMPANY OVERVIEW
TABLE 145 FREIGHT FARMS, INC.: PRODUCT/SOLUTION/SERVICE OFFERINGS
TABLE 146 FREIGHT FARMS, INC.: PRODUCT LAUNCHES
TABLE 147 FREIGHT FARMS, INC.: DEALS
12.2.4 AEROFARMS
TABLE 148 AEROFARMS: COMPANY OVERVIEW
TABLE 149 AEROFARMS: PRODUCT/SOLUTION/SERVICE OFFERINGS
TABLE 150 AEROFARMS: DEALS
TABLE 151 AEROFARMS: OTHERS
12.2.5 SKY GREENS
TABLE 152 SKY GREENS: COMPANY OVERVIEW
TABLE 153 SKY GREENS: PRODUCT/SOLUTION/SERVICE OFFERINGS
12.2.6 SPREAD CO., LTD.
TABLE 154 SPREAD CO., LTD.: COMPANY OVERVIEW
TABLE 155 SPREAD CO., LTD.: PRODUCT/SOLUTION/SERVICE OFFERINGS
TABLE 156 SPREAD CO., LTD.: DEALS
12.2.7 PLENTY UNLIMITED INC.
TABLE 157 PLENTY UNLIMITED INC.: COMPANY OVERVIEW
TABLE 158 PLENTY UNLIMITED INC.: PRODUCT/SOLUTION/SERVICE OFFERINGS
TABLE 159 PLENTY UNLIMITED INC.: DEALS
TABLE 160 PLENTY UNLIMITED INC.: OTHERS
12.2.8 VALOYA

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TABLE 161 VALOYA: COMPANY OVERVIEW
TABLE 162 VALOYA: PRODUCT/SOLUTION/SERVICE OFFERINGS
TABLE 163 VALOYA: DEALS
12.2.9 EVERLIGHT ELECTRONICS CO., LTD.
TABLE 164 EVERLIGHT ELECTRONICS CO., LTD.: COMPANY OVERVIEW
FIGURE 60 EVERLIGHT ELECTRONICS CO., LTD.: COMPANY SNAPSHOT
TABLE 165 EVERLIGHT ELECTRONICS CO., LTD.: PRODUCT/SOLUTION/SERVICE OFFERINGS
12.2.10 HELIOSPECTRA
TABLE 166 HELIOSPECTRA: COMPANY OVERVIEW
FIGURE 61 HELIOSPECTRA: COMPANY SNAPSHOT
TABLE 167 HELIOSPECTRA: PRODUCT/SOLUTION/SERVICE OFFERINGS
TABLE 168 HELIOSPECTRA: PRODUCT LAUNCHES
TABLE 169 HELIOSPECTRA: DEALS
12.3 OTHER KEY PLAYERS
12.3.1 GREEN SENSE FARMS HOLDINGS, INC.
12.3.2 AMHYDRO
12.3.3 URBAN CROP SOLUTIONS
12.3.4 VERTICAL FARM SYSTEMS
12.3.5 BOWERY FARMING INC.
12.3.6 AGRICOOL
12.3.7 SANANBIO
12.3.8 GP SOLUTIONS, INC.
12.3.9 INFARM
12.3.10 ALTIUS FARMS
12.3.11 INTELLIGENT GROWTH SOLUTIONS LIMITED
12.3.12 4D BIOS INC
12.3.13 FUTURE CROPS
12.3.14 BRIGHTFARMS
12.3.15 VERTICAL FUTURE LTD.
*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, and MnM View (Key strengths/Right to Win, Strategic Choices Made, and Weaknesses and Competitive Threats) might not be captured in case of unlisted companies.

13 APPENDIX

13.1 INSIGHTS FROM INDUSTRY EXPERTS
13.2 DISCUSSION GUIDE

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13.3 KNOWLEDGESTORE: MARKETSANDMARKETS’ SUBSCRIPTION PORTAL
13.4 CUSTOMIZATION OPTIONS
13.5 RELATED REPORTS
13.6 AUTHOR DETAILS

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