

# Operational Technology Market Size, Share & Trends Analysis Report By Component (SCADA, PLC, HMI, MES, BMS), By Connectivity, By Deployment, By Enterprise Size, By Industry, By Region, And Segment Forecasts, 2024 - 2030

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## Abstracts

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### Operational Technology Market Growth & Trends

The global operational technology market size is expected to reach USD 364.74 billion by 2030, growing at a CAGR of 10% from 2024 to 2030, according to a new report by Grand View Research, Inc. The increased demand for operational technologies (OT) security solutions arises from the growing dependence on digital technologies within industrial systems, resulting in heightened vulnerability of OT systems to cyber threats. Furthermore, the imposition of strict government regulations, such as the cybersecurity framework aimed at enhancing industrial control systems (ICS), compels organizations to implement extensive OT security protocols. Moreover, the integration of IT and OT systems leads to increased interconnectedness, thereby exposing OT systems to cyber threats originating from IT networks. Consequently, there is an escalating need for resilient OT solutions to safeguard vital industrial processes against potential cyber risks.

Operational technologies enable direct control and monitoring of devices, processes, and events within the physical environment. Examples include DCS, SCADA, PLCs, BMS, CNC systems, and more. These technologies operate critical infrastructure such as manufacturing plants, power plants, and water treatment facilities, ensuring efficient and secure management of industrial processes. They are integral components of

various essential systems in modern society, playing crucial roles in maintaining functionality and reliability while safeguarding against potential disruptions and hazards.

In the dynamic operational technology market, the competitive environment is in constant flux, prompting companies to continually innovate and develop fresh growth strategies to uphold their market leadership. Key players prioritize research and development to craft advanced security solutions infused with AI and machine learning. For instance, Huawei Technologies Co., Ltd. is poised to transform manufacturing by spearheading the integration of Information and Communications Technologies (ICT) and Operational Technologies (OT) to enable smarter production processes. In alignment with global initiatives such as Germany's Industry 4.0, China's Made in China 2025, and the US's Industrial Internet, Huawei is at the forefront of driving digitalization across every manufacturing sector.

In North America, operational technology serves as a cornerstone of industrial operations, supporting sectors including manufacturing, transportation and logistics, and healthcare. With a focus on efficiency and reliability, OT systems in North America are integral for maintaining critical infrastructure and ensuring smooth production processes. Companies in sectors such as automotive, aerospace, and energy rely heavily on OT to streamline operations and minimize downtime. As technological advancements continue to reshape industries in North America, the integration of OT with emerging technologies such as AI and automation holds the promise of further optimizing performance and driving innovation. Meanwhile, in the Asia Pacific region, operational technology plays a central role in fueling the rapid industrialization and economic growth of emerging economies.

### Operational Technology Market Report Highlights

Computer Numerical Control (CNC) technology stands out as a dominant force within the operational technology market. Its widespread adoption across various industries, including manufacturing, aerospace, and automotive, highlights its significance in driving precision, automation, and efficiency in industrial processes

The wired segment is experiencing significant growth in 2023. This preference for wired solutions highlighted the reliability, security, and consistent performance that wired technologies offer, particularly in critical industrial settings where uninterrupted connectivity is paramount

The large enterprises segment has gained dominance in the market, with a significant market share in 2023. Their ability to invest in and implement advanced OT solutions is greater than that of smaller businesses, allowing them to streamline operations and enhance efficiency on a larger scale

The discrete Industry segment secured dominance in the market, capturing a substantial market share by 2023. OT solutions customized for discrete manufacturing environments offer capabilities such as real-time monitoring, quality control, and production optimization, which are essential for maximizing efficiency and ensuring product quality

Advancements in AI and machine learning are driving growth in the market. These technologies enable OT systems to swiftly analyze extensive data sets and generate actionable insights in real time. As a result, businesses can make informed decisions more efficiently, leading to enhanced productivity and overall performance

With the increasing connectivity of industrial systems and the rise of IoT devices, the vulnerability to cyber threats has become a significant concern for businesses. As a result, there's an increased focus on integrating robust cybersecurity measures into OT solutions to protect critical infrastructure and sensitive data

## Contents

### **CHAPTER 1. METHODOLOGY AND SCOPE**

- 1.1. Market Segmentation and Scope
- 1.2. Research Methodology
  - 1.2.1. Information Procurement
- 1.3. Information or Data Analysis
- 1.4. Methodology
- 1.5. Research Scope and Assumptions
- 1.6. List of Data Sources

### **CHAPTER 2. EXECUTIVE SUMMARY**

- 2.1. Market Outlook
- 2.2. Segment Outlook
- 2.3. Competitive Insights

### **CHAPTER 3. OPERATIONAL TECHNOLOGY (OT) MARKET VARIABLES, TRENDS, & SCOPE**

- 3.1. Market Lineage Outlook
- 3.2. Market Dynamics
  - 3.2.1. Market Driver Analysis
  - 3.2.2. Market Restraint Analysis
  - 3.2.3. Industry Challenge
- 3.3. Operational Technology (OT) Market Analysis Tools
  - 3.3.1. Industry Analysis - Porter's
    - 3.3.1.1. Bargaining power of the suppliers
    - 3.3.1.2. Bargaining power of the buyers
    - 3.3.1.3. Threats of substitution
    - 3.3.1.4. Threats from new entrants
    - 3.3.1.5. Competitive rivalry
  - 3.3.2. PESTEL Analysis
    - 3.3.2.1. Political landscape
    - 3.3.2.2. Economic landscape
    - 3.3.2.3. Social landscape
    - 3.3.2.4. Technological landscape
    - 3.3.2.5. Environmental landscape

### 3.3.2.6. Legal landscape

## **CHAPTER 4. OPERATIONAL TECHNOLOGY (OT) MARKET: COMPONENT ESTIMATES & TREND ANALYSIS**

### 4.1. Segment Dashboard

### 4.2. Operational Technology (OT) Market: Component Movement Analysis, 2023 & 2030 (USD Billion)

### 4.3. Supervisory Control and Data Acquisition (SCADA)

#### 4.3.1. Supervisory Control and Data Acquisition (SCADA) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

### 4.4. Distributed Control System (DCS)

#### 4.4.1. Distributed Control System (DCS) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

### 4.5. Manufacturing Execution System (MES)

#### 4.5.1. Manufacturing Execution System (MES) Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

### 4.6. Functional Safety

#### 4.6.1. Functional Safety Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

### 4.7. Building Management System (BMS)

#### 4.7.1. Building Management System (BMS) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

### 4.8. Plant Asset Management (PAM)

#### 4.8.1. Plant Asset Management (PAM) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

### 4.9. Variable Frequency Drives (VFD)

#### 4.9.1. Variable Frequency Drives (VFD) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

### 4.10. Computer Numerical Control (CNC)

#### 4.10.1. Computer Numerical Control (CNC) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

### 4.11. Others

#### 4.11.1. Others Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

## **CHAPTER 5. OPERATIONAL TECHNOLOGY (OT) MARKET: CONNECTIVITY ESTIMATES & TREND ANALYSIS**

### 5.1. Segment Dashboard

5.2. Operational Technology (OT) Market: Connectivity Movement Analysis, 2023 & 2030 (USD Billion)

5.3. Wired

5.3.1. Wired Operational Technology (OT) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

5.4. Wireless

5.4.1. Wireless Operational Technology (OT) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

## **CHAPTER 6. OPERATIONAL TECHNOLOGY (OT) MARKET: DEPLOYMENT ESTIMATES & TREND ANALYSIS**

6.1. Segment Dashboard

6.2. Operational Technology (OT) Market: Technology Movement Analysis, 2023 & 2030 (USD Billion)

6.3. Cloud

6.3.1. Cloud Operational Technology (OT) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

6.4. On-premises

6.4.1. On-premises Operational Technology (OT) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

## **CHAPTER 7. OPERATIONAL TECHNOLOGY (OT) MARKET: ENTERPRISE SIZE ESTIMATES & TREND ANALYSIS**

7.1. Segment Dashboard

7.2. Operational Technology (OT) Market: Enterprise Size Movement Analysis, 2023 & 2030 (USD Billion)

7.3. SMEs

7.3.1. SMEs Operational Technology (OT) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

7.4. Large Enterprises

7.4.1. Large Enterprises Operational Technology (OT) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

## **CHAPTER 8. OPERATIONAL TECHNOLOGY (OT) MARKET: INDUSTRY ESTIMATES & TREND ANALYSIS**

8.1. Segment Dashboard

8.2. Operational Technology (OT) Market: Industry Movement Analysis, 2023 & 2030 (USD Billion)

8.3. Process Industry

8.3.1. Process Industry Operational Technology (OT) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

8.4. Discrete Industry

8.4.1. Discrete Industry Operational Technology (OT) Market Revenue Estimates and Forecasts, 2017 - 2030 (USD Billion)

## **CHAPTER 9. OPERATIONAL TECHNOLOGY (OT) MARKET: REGIONAL ESTIMATES & TREND ANALYSIS**

9.1. Operational Technology (OT) Market Share, By Region, 2023 & 2030, USD Billion

9.2. North America

9.2.1. North America Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.2.2. U.S.

9.2.2.1. U.S. Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.2.3. Canada

9.2.3.1. Canada Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.3. Europe

9.3.1. Europe Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.3.2. U.K.

9.3.2.1. U.K. Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.3.3. Germany

9.3.3.1. Germany Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.3.4. France

9.3.4.1. France Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.4. Asia Pacific

9.4.1. Asia Pacific Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.4.2. China

9.4.2.1. China Operational Technology (OT) Market Estimates and Forecasts, 2017 -



2030 (USD Billion)

9.4.3. Japan

9.4.3.1. Japan Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.4.4. India

9.4.4.1. India Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.4.5. South Korea

9.4.5.1. South Korea Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.4.6. Australia

9.4.6.1. Australia Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.5. Latin America

9.5.1. Latin America Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.5.2. Brazil

9.5.2.1. Brazil Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.5.3. Mexico

9.5.3.1. Mexico Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.6. Middle East and Africa

9.6.1. Middle East and Africa Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.6.2. KSA

9.6.2.1. KSA Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.6.3. UAE

9.6.3.1. UAE Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

9.6.4. South Africa

9.6.4.1. South Africa Operational Technology (OT) Market Estimates and Forecasts, 2017 - 2030 (USD Billion)

## **CHAPTER 10. COMPETITIVE LANDSCAPE**

10.1. Company Categorization

10.2. Company Market Positioning



- 10.3. Participant's Overview
- 10.4. Financial Performance
- 10.5. Component Benchmarking
- 10.6. Company Heat Map Analysis
- 10.7. Strategy Mapping
- 10.8. Company Profiles/Listing
  - 10.8.1. ABB
    - 10.8.1.1. Participant's Overview
    - 10.8.1.2. Financial Performance
    - 10.8.1.3. Product Benchmarking
    - 10.8.1.4. Recent Developments
  - 10.8.2. Emerson Electric Co.
    - 10.8.2.1. Participant's Overview
    - 10.8.2.2. Financial Performance
    - 10.8.2.3. Product Benchmarking
    - 10.8.2.4. Recent Developments
  - 10.8.3. General Electric
    - 10.8.3.1. Participant's Overview
    - 10.8.3.2. Financial Performance
    - 10.8.3.3. Product Benchmarking
    - 10.8.3.4. Recent Developments
  - 10.8.4. Hitachi, Ltd.
    - 10.8.4.1. Participant's Overview
    - 10.8.4.2. Financial Performance
    - 10.8.4.3. Product Benchmarking
    - 10.8.4.4. Recent Developments
  - 10.8.5. Honeywell International Inc.
    - 10.8.5.1. Participant's Overview
    - 10.8.5.2. Financial Performance
    - 10.8.5.3. Product Benchmarking
    - 10.8.5.4. Recent Developments
  - 10.8.6. IBM Corporation
    - 10.8.6.1. Participant's Overview
    - 10.8.6.2. Financial Performance
    - 10.8.6.3. Product Benchmarking
    - 10.8.6.4. Recent Developments
  - 10.8.7. OMRON Corporation
    - 10.8.7.1. Participant's Overview
    - 10.8.7.2. Financial Performance

- 10.8.7.3. Product Benchmarking
- 10.8.7.4. Recent Developments
- 10.8.8. Rockwell Automation
  - 10.8.8.1. Participant's Overview
  - 10.8.8.2. Financial Performance
  - 10.8.8.3. Product Benchmarking
  - 10.8.8.4. Recent Developments
- 10.8.9. Siemens
  - 10.8.9.1. Participant's Overview
  - 10.8.9.2. Financial Performance
  - 10.8.9.3. Product Benchmarking
  - 10.8.9.4. Recent Developments
- 10.8.10. Schneider Electric
  - 10.8.10.1. Participant's Overview
  - 10.8.10.2. Financial Performance
  - 10.8.10.3. Product Benchmarking
  - 10.8.10.4. Recent Developments

## List Of Tables

### LIST OF TABLES

- Table 1. Operational technology - industry snapshot & key buying criteria, 2017 - 2030
- Table 2. Global Operational Technology (OT) market, 2017 - 2030 (USD Billion)
- Table 3. Global Operational Technology (OT) market estimates and forecast by component, 2017 - 2030 (USD Billion)
- Table 4. Global Operational Technology (OT) market estimates and forecast by connectivity, 2017 - 2030 (USD Billion)
- Table 5. Global Operational Technology (OT) market estimates and forecast by deployment, 2017 - 2030 (USD Billion)
- Table 6. Global Operational Technology (OT) market estimates and forecast by enterprise size, 2017 - 2030 (USD Billion)
- Table 7. Global Operational Technology (OT) market estimates and forecast by industry, 2017 - 2030 (USD Billion)
- Table 8. Global Operational Technology (OT) market estimates and forecasts by region, 2017 - 2030 (USD Billion)
- Table 9. Operational Technology (OT) market estimates and forecast by supervisory control and data acquisition (SCADA), 2017 - 2030 (USD Billion)
- Table 10. Operational Technology (OT) market estimates and forecast, by programmable logic controller (PLC), 2017 - 2030 (USD Billion)
- Table 11. Operational Technology (OT) market estimates and forecast by remote terminal units (RTU), 2017 - 2030 (USD Billion)
- Table 12. Operational Technology (OT) market estimates and forecast by human-machine interface (HMI), 2017 - 2030 (USD Billion)
- Table 13. Operational Technology (OT) market estimates and forecast by others, 2017 - 2030 (USD Billion)
- Table 14. Operational Technology (OT) market estimates and forecast by distributed control system (DCS), 2017 - 2030 (USD Billion)
- Table 15. Operational Technology (OT) market estimates and forecast, by Manufacturing Execution System (MES), 2017 - 2030 (USD Billion)
- Table 16. Operational Technology (OT) market estimates and forecast by functional safety, 2017 - 2030 (USD Billion)
- Table 17. Operational Technology (OT) market estimates and forecast by Building Management System (BMS), 2017 - 2030 (USD Billion)
- Table 18. Operational Technology (OT) market estimates and forecast by plant asset management (PAM), 2017 - 2030 (USD Billion)

Table 19. Operational Technology (OT) market estimates and forecast, by variable frequency drives (VFD), 2017 - 2030 (USD Billion)

Table 20. Operational Technology (OT) market estimates and forecast by computer numerical control (CNC), 2017 - 2030 (USD Billion)

Table 21. Operational Technology (OT) market estimates and forecast by others, 2017 - 2030 (USD Billion)

Table 22. Operational Technology (OT) market estimates and forecast, by wired, 2017 - 2030 (USD Billion)

Table 23. Operational Technology (OT) market estimates and forecast by wireless, 2017 - 2030 (USD Billion)

Table 24. Operational Technology (OT) market estimates and forecast by cloud, 2017 - 2030 (USD Billion)

Table 25. Operational Technology (OT) market estimates and forecast by on-premises, 2017 - 2030 (USD Billion)

Table 26. Operational Technology (OT) market estimates and forecast by SMEs, 2017 - 2030 (USD Billion)

Table 27. Operational Technology (OT) market estimates and forecast, by large enterprises, 2017 - 2030 (USD Billion)

Table 28. Operational Technology (OT) market estimates and forecast by process industry, 2017 - 2030 (USD Billion)

Table 29. Operational Technology (OT) market estimates and forecast by oil & gas, 2017 - 2030 (USD Billion)

Table 30. Operational Technology (OT) market estimates and forecast, by chemicals, 2017 - 2030 (USD Billion)

Table 31. Operational Technology (OT) market estimates and forecast by pulp & paper, 2017 - 2030 (USD Billion)

Table 32. Operational Technology (OT) market estimates and forecast by pharmaceuticals, 2017 - 2030 (USD Billion)

Table 33. Operational Technology (OT) market estimates and forecast, by mining & metals, 2017 - 2030 (USD Billion)

Table 34. Operational Technology (OT) market estimates and forecast by energy & power, 2017 - 2030 (USD Billion)

Table 35. Operational Technology (OT) market estimates and forecast by others, 2017 - 2030 (USD Billion)

Table 36. Operational Technology (OT) market estimates and forecast by discrete industry, 2017 - 2030 (USD Billion)

Table 37. Operational Technology (OT) market estimates and forecast by automotive, 2017 - 2030 (USD Billion)

Table 38. Operational Technology (OT) market estimates and forecast, by

semiconductor & electronics, 2017 - 2030 (USD Billion)

Table 39. Operational Technology (OT) market estimates and forecast by aerospace & defense, 2017 - 2030 (USD Billion)

Table 40. Operational Technology (OT) market estimates and forecast by heavy manufacturing, 2017 - 2030 (USD Billion)

Table 41. Operational Technology (OT) market estimates and forecast by others, 2017 - 2030 (USD Billion)

Table 42. North America Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 43. North America Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 44. North America Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 45. North America Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 46. North America Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 47. North America Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 48. U.S. Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 49. U.S. Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 50. U.S. Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 51. U.S. Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 52. U.S. Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 53. U.S. Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 54. Canada Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 55. Canada Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 56. Canada Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 57. Canada Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 58. Canada Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 59. Canada Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 60. Europe Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 61. Europe Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 62. Europe Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 63. Europe Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 64. Europe Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 65. Europe Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 66. U.K. Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 67. U.K. Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 68. U.K. Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 69. U.K. Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 70. U.K. Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 71. U.K. Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 72. Germany Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 73. Germany Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 74. Germany Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 75. Germany Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 76. Germany Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 77. Germany Operational Technology (OT) market estimates and forecast, by



industry, 2017 - 2030 (USD Billion)

Table 78. France Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 79. France Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 80. France Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 81. France Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 82. France Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 83. France Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 84. Asia Pacific Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 85. Asia Pacific Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 86. Asia Pacific Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 87. Asia Pacific Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 88. Asia Pacific Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 89. Asia Pacific Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 90. China Operational technology Market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 91. China Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 92. China Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 93. China Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 94. China Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 95. China Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 96. Japan Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)



Table 97. Japan Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 98. Japan Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 99. Japan Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 100. Japan Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 101. Japan Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 102. India Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 103. India Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 104. India Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 105. India Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 106. India Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 107. India Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 108. South Korea Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 109. South Korea Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 110. South Korea Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 111. South Korea Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 112. South Korea Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 113. South Korea Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 114. Australia Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 115. Australia Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 116. Australia Operational Technology (OT) market estimates and forecast, by

connectivity, 2017 - 2030 (USD Billion)

Table 117. Australia Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 118. Australia Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 119. Australia Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 120. Latin America Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 121. Latin America Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 122. Latin America Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 123. Latin America Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 124. Latin America Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 125. Latin America Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 126. Brazil Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 127. Brazil Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 128. Brazil Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 129. Brazil Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 130. Brazil Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 131. Brazil Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 132. Mexico Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 133. Mexico Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 134. Mexico Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 135. Mexico Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 136. Mexico Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 137. Mexico Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 138. Middle East & Africa Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 139. Middle East & Africa Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 140. Middle East & Africa Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 141. Middle East & Africa Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 142. Middle East & Africa Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 143. Middle East & Africa Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 144. KSA Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 145. KSA Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 146. KSA Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 147. KSA Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 148. KSA Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 149. KSA Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

Table 150. UAE Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 151. UAE Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 152. UAE Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 153. UAE Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 154. UAE Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 155. UAE Operational Technology (OT) market estimates and forecast, by

industry, 2017 - 2030 (USD Billion)

Table 156. South Africa Operational Technology (OT) market Estimates and Forecast, 2017 - 2030 (USD Billion)

Table 157. South Africa Operational Technology (OT) market estimates and forecast, by component, 2017 - 2030 (USD Billion)

Table 158. South Africa Operational Technology (OT) market estimates and forecast, by connectivity, 2017 - 2030 (USD Billion)

Table 159. South Africa Operational Technology (OT) market estimates and forecast, by deployment, 2017 - 2030 (USD Billion)

Table 160. South Africa Operational Technology (OT) market estimates and forecast, by enterprise size, 2017 - 2030 (USD Billion)

Table 161. South Africa Operational Technology (OT) market estimates and forecast, by industry, 2017 - 2030 (USD Billion)

## List Of Figures

### LIST OF FIGURES

- Fig. 1 Information procurement
- Fig. 2 Primary research pattern
- Fig. 3 Market research approaches
- Fig. 4 Value chain-based sizing & forecasting
- Fig. 5 QFD modelling for market share assessment.
- Fig. 6 Parent market analysis
- Fig. 7 Patient-population model
- Fig. 8 Market formulation & validation
- Fig. 9 Operational Technology (OT) market snapshot
- Fig. 10 Operational Technology (OT) market segment snapshot
- Fig. 11 Operational Technology (OT) market competitive landscape snapshot
- Fig. 12 Market research process
- Fig. 13 Market driver relevance analysis (Current & future impact)
- Fig. 14 Market restraint relevance analysis (Current & future impact)
- Fig. 15 Operational Technology (OT) Market, Component outlook key takeaways (USD Billion)
- Fig. 16 Operational Technology (OT) Market: Component movement analysis 2023 & 2030 (USD Billion)
- Fig. 17 Supervisory Control and Data Acquisition (SCADA) Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)
- Fig. 18 Distributed Control System (DCS) Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)
- Fig. 19 Manufacturing Execution System (MES) Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)
- Fig. 20 Functional Safety Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)
- Fig. 21 Building Management System (BMS) Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)
- Fig. 22 Plant Asset Management (PAM) Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)
- Fig. 23 Variable Frequency Drives (VFD) Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)
- Fig. 24 Computer Numerical Control (CNC) Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 25 Operational Technology (OT) Market: Connectivity outlook key takeaways (USD Billion)

Fig. 26 Operational Technology (OT) Market: Connectivity movement analysis 2023 & 2030 (USD Billion)

Fig. 27 Wired Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 28 Wireless Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 29 Operational Technology (OT) Market: Deployment outlook key takeaways (USD Billion)

Fig. 30 Operational Technology (OT) Market: Deployment movement analysis 2023 & 2030 (USD Billion)

Fig. 31 Cloud Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 32 On-premises Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 33 Operational Technology (OT) Market: Enterprise Size outlook key takeaways (USD Billion)

Fig. 34 Operational Technology (OT) Market: Enterprise Size movement analysis 2023 & 2030 (USD Billion)

Fig. 35 SMEs Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 36 Large Enterprises Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 37 Operational Technology (OT) Market: Industry outlook key takeaways (USD Billion)

Fig. 38 Operational Technology (OT) Market: Industry movement analysis 2023 & 2030 (USD Billion)

Fig. 39 Process Industry Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 40 Discrete Industry Operational Technology (OT) market revenue estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 41 Regional marketplace: Key takeaways

Fig. 42 Operational Technology (OT) Market: Regional outlook, 2023 & 2030, USD Billion

Fig. 43 North America Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 44 U.S. Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)



Fig. 45 Canada Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 46 Europe Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 47 U.K. Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 48 Germany Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 49 France Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 50 Asia Pacific Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 51 Japan Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 52 China Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 53 India Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 54 South Korea Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 55 Australia Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 56 Latin America Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 57 Brazil Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 58 Mexico Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 59 MEA Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 60 KSA Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 61 UAE Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 62 South Africa Operational Technology (OT) market estimates and forecasts, 2017 - 2030 (USD Billion)

Fig. 63 Strategy framework

Fig. 64 Company Categorization



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