

6G Market by Enterprise Application (Holographic Communication, Tactile/Haptic Internet, Fully Automated Driving, Industry 5.0, Internet of Bio-Nano-Things, Deep-sea Sightseeing), Usage Scenario (FeMBB, ERLLC, umMTC, LDHMC, ELPC) - Global Forecast to 2035

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Abstracts

The 6G market is estimated at USD 3.96 billion in 2030 to USD 68.69 billion by 2035, at a Compound Annual Growth Rate (CAGR) of 76.9%. 6G has led to the demand for broadband, reliable connectivity for proper support of virtual meetings and collaborative platforms, and seamless enterprise resource access. More increasingly, businesses and teams rely on digital tools for communication and project management and, therefore, demand networks that can carry big volumes of data without interruptions in performance. With such ultra-fast speeds and low latency, 6G technology will play an important role in accommodating such necessities - from extremely clear video conferencing to rapid file transfers and smooth collaboration work. Connectivity will not only make people more productive but make remote work places even more dynamic and interactive to help organizations run successfully in a digital-first environment.

'By usage scenario, FeMBB segment to hold the largest market size during the forecast period.'

The further-enhanced mobile broadband is the key usage scenario for 6G technology. This offers the user a significantly higher data rate, improved reliability, and ultra-low latency compared to today's mobile broadband. As such, it can provide very-high-bit-rate speeds as required by the user to ensure immediate downloads, gigabit per second, smooth browsing, and faster file transfers. Quality of Service in terms of low-

latency connections and fewer contents of buffering are really important for applications demanding real-time or high-bandwidth communication. It also supports a variety of high-definition multimedia content, bringing networks up to speed for ultra-high-definition video streaming, interactive virtual reality experiences, and gaming applications, thus bringing mixed multimedia on mobile devices. FeMBB also supports holographic communications, full sensory digital sensing and reality, and the haptic internet, all exploiting its high potential for extreme HD and super HD video delivery. Advanced modulation and coding schemes combined with highly spectrum-efficient transmission techniques allow more data to be transmitted in the same frequency bands. This technology especially helps densely populated urban areas and big events, which are prone to network congestion, thus affecting performance, changing personal digital experiences, and stimulating innovative services in various fields such as education, entertainment, and health.

“The healthcare & life sciences segment to register the fastest growth rate during the forecast period.”

6G will revolutionize the healthcare and life science sectors only with 6G networks, as it promises to bring unprecedented medical technology, patient care, and research developments. Physicians will have high-definition virtual consultations, receive real-time diagnostic data directly from wearable devices, and be capable of controlling or performing surgery with near-zero lag through robotic systems. It will mean life or death for those patients living in rural or underserved communities where 6G is bringing high-quality healthcare close to home. 6G will also enable the healthcare sectors to handle the large volume sizes of data in genomics and personalized medicine, which will lead to AI-based diagnostics and treatment programs for individualized patients. Advanced research and development in biotechnology, pharmaceutical trials, and bioinformatics will be supported across life sciences. The analysis and sharing of data worldwide will become easy and smooth, accelerating the drug discovery and development processes. Smart devices will be included in hospitals and healthcare centers. 6G will help the hospital to digitize their operations effectively, optimize the way resource management is conducted in hospitals, and benefit the patients with improved outcomes.

“North America to hold the second largest market size during the forecast period.”

In North America, efforts to push forward toward 6G are being led by significant investments and strategic moves in its next-generation connectivity. The two are engaging global leaders to accelerate research and deployment of 6G. Launched by the Alliance for Telecommunications Industry Solutions, the Next G Alliance is the biggest

step in positioning North America as a leader for 6G over the next decade. This project focuses on private-sector-led research, development, and commercialization of 6G technologies. Innovation will be supported through collaborative projects and provide a clear roadmap for integrating 6G into several industries. Meanwhile, in February 2024, the Government of Canada has adopted the Joint Principles for 6G, developing the Telecommunications Reliability Agenda to strengthen network reliability and to protect Canadians. Acceptance has highlighted Canada's zeal for participation in the global agenda and initiatives surrounding telco, including the Global Coalition on Telecommunications, Prague Proposals on Telecommunications Supplier Diversity, and the UK's Open RAN Principles. All together, North America is here to lead this emerging 6G landscape.

In-depth interviews have been conducted with chief executive officers (CEOs), Directors, and other executives from various key organizations operating in the 6G market.

By Company Type: Tier 1 – 70%, Tier 2 – 20%, and Tier 3 – 10%

By Designation: C-level –73%, Managers – 18%, and Others – 9%

By Region: North America – 55%, Europe – 9%, Asia Pacific – 36%

The major players in the 6G market include AT&T (US), NTT DoCoMo (Japan), Orange (France), Jio (India), Bharti Airtel (India), Vodafone Group (UK), SK Telecom (South Korea), Deutsche Telekom (Germany), Verizon (US), China Mobile (China), Telefonica (Spain), China Unicom (China), Rakuten Mobile (Japan) KT Corporation (South Korea), Singtel (Singapore), and KDDI Corporation (Japan). These players have adopted various growth strategies, such as partnerships, agreements and collaborations, new product launches, enhancements, and acquisitions to expand their 6G market footprint.

Research Coverage

The market study covers the 6G market size across different segments. It aims at estimating the market size and the growth potential across various segments, including By Usage Scenario (Further-Enhanced Mobile Broadband (FEMBB), Extremely Reliable And Low-Latency Communications (ERLLC), Long-Distance And High-Mobility Communications (LDHMC), Ultra-Massive Machine Type Communications (UMMTC), Extremely Low-Power Communications (ELPC)) By Enterprise Application (Holographic

Communications, Tactile/Haptic Internet, Fully Automated Driving, Industry 5.0, Internet Of Bio-Nano-Things, Other Enterprise Applications (Deep-Sea Sightseeing And Space Travel)), By Communication Infrastructure (Cellular, Broadband, Fixed) By End-User (Consumer and Enterprise (Manufacturing, Healthcare & Life Sciences, Automotive, Media & Entertainment, Aerospace & Defense, Other Enterprises [Retail & Ecommerce, Energy & Utilities, Education])) and Region (North America, Europe, Asia Pacific, Middle East & Africa, and Latin America). The study includes an in-depth competitive analysis of the leading market players, their company profiles, key observations related to product and business offerings, recent developments, and market strategies.

Key Benefits of Buying the Report

The report will help the market leaders/new entrants with information on the closest approximations of the global 6G market's revenue numbers and subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. Moreover, the report will provide insights for stakeholders to understand the market's pulse and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

Analysis of key drivers (Technological Advancements, Deliver Extreme Performance And Highly Advanced Use Cases, Growing Metaverse Traction), restraints (High initial cost, Limited Spectrum Availability, Regulatory and Standardization Challenges, Terahertz (THz) Frequency Challenges and Energy Efficiency Concerns), opportunities (Transformative Applications, Global Connectivity, Detailed sensing and high-precision positioning technologies offered by 6G networks), and challenges (Security and Privacy, Ethical and Social Implications, Environmental Concerns) influencing the growth of the 6G market.

Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the 6G market.

Market Development: The report provides comprehensive information about lucrative markets and analyses the 6G market across various regions.

Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the 6G market.

Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading include include AT&T (US), NTT DoCoMo (Japan), Orange (France), Jio (India), Bharti Airtel (India), Vodafone Group (UK), SK Telecom (South Korea), Deutsche Telekom (Germany), Verizon Communications (US), China Mobile (China), Telefonica S.A. (Spain), China Unicom (China), and Rakuten Mobile (Japan) KT Corporation (South Korea), Singtel (Singapore), KDDI Corporation (Japan).

Contents

INTRODUCTION

1. STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 STUDY SCOPE

1.3. MARKET SEGMENTATION & REGIONS COVERED

1.3.2 INCLUSIONS & EXCLUSIONS

1.4 CURRENCY CONSIDERED

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2. RESEARCH DATA

2.1. SECONDARY DATA

2.1.2 PRIMARY DATA

2.1.2. Primary interviews with experts

2.1.2.2 Breakdown of primary profiles

2.1.2.3 Key insights from industry experts

2.2 MARKET SIZE ESTIMATION

2.2. TOP-DOWN APPROACH

2.2.2 BOTTOM-UP APPROACH

2.2.3 6G MARKET ESTIMATION: DEMAND-SIDE ANALYSIS

2.3 DATA TRIANGULATION

2.4 RESEARCH ASSUMPTIONS

2.4. RISK ASSESSMENT

2.5 RESEARCH LIMITATIONS

3 EXECUTIVE SUMMARY

4 PREMIUM INSIGHTS

4. ATTRACTIVE OPPORTUNITIES FOR KEY PLAYERS IN 6G MARKET

4.2 6G MARKET, BY USAGE SCENARIO

4.3 6G MARKET, BY ENTERPRISE APPLICATION

4.4 6G MARKET, BY END USER

4.5 6G MARKET, BY ENTERPRISE

4.6 6G MARKET, BY COMMUNICATION INFRASTRUCTURE

4.7 NORTH AMERICAN 6G MARKET: END USER AND TOP THREE ENTERPRISE APPLICATIONS

5 MARKET OVERVIEW AND INDUSTRY TRENDS

5. INTRODUCTION

5.2 MARKET DYNAMICS

5.2. DRIVERS

5.2.1. Technological advancements

5.2.1.2 Deliverance of extreme performance and highly advanced use cases

5.2.1.3 Growing metaverse traction

5.2.2 RESTRAINTS

5.2.2. High initial cost

5.2.2.2 Limited spectrum availability

5.2.2.3 Regulatory and standardization challenges

5.2.2.4 Terahertz (THz) frequency challenges and energy efficiency concerns

5.2.3 OPPORTUNITIES

5.2.3. Transformative applications

5.2.3.2 Global connectivity

5.2.3.3 Emergence of detailed sensing and high-precision positioning technologies

5.2.4 CHALLENGES

5.2.4. Security and privacy

5.2.4.2 Ethical and social implications

5.2.4.3 Environmental concerns

5.3 INDUSTRY TRENDS

5.3. BRIEF HISTORY OF 6G MARKET

5.3.1. 2017–2019: Early concepts and vision

5.3.1.2 2019–2021: Initiation of research

5.3.1.3 2021–2023: Global collaboration and standardization efforts

5.3.1.4 2024–present: Early testing and prototyping

5.3.2 SUPPLY CHAIN ANALYSIS

5.3.3 ECOSYSTEM

5.3.4 CASE STUDY ANALYSIS

5.3.4. Nokia Bell Labs showcased 6G and research on lunar networks for NASA

5.3.4.2 Samsung unveiled its Exynos modem to support two-way satellite communication

5.3.4.3 NTT created prototype baseband amplifier chip for networks operating at 2 terabytes per second

5.3.5 REGULATORY LANDSCAPE

5.3.5. Regulatory bodies, government agencies, and other organizations

5.3.5.2 North America

5.3.5.2. US

5.3.5.2.2 Canada

5.3.5.3 Europe

5.3.5.3. UK

5.3.5.3.2 Germany

5.3.5.3.3 Italy

5.3.5.3.4 France

5.3.5.4 Asia Pacific

5.3.5.4. China

5.3.5.4.2 India

5.3.5.4.3 Australia

5.3.5.4.4 Japan

5.3.5.5 Middle East & Africa

5.3.5.5. Saudi Arabia

5.3.5.5.2 South Africa

5.3.5.6 Latin America

5.3.5.6. Brazil

5.3.5.6.2 Mexico

5.3.6 PATENT ANALYSIS

5.3.6. Methodology

5.3.7 PORTER'S FIVE FORCES ANALYSIS

5.3.7. Threat of new entrants

5.3.7.2 Threat of substitutes

5.3.7.3 Bargaining power of suppliers

5.3.7.4 Bargaining power of buyers

5.3.7.5 Intensity of competitive rivalry

5.3.8 TECHNOLOGY ANALYSIS

5.3.8. Key technologies

5.3.8.1. Massive MIMO

5.3.8.1.2 Terahertz (THz) communication

5.3.8.1.3 Integrated Sensing and Communication (ISAC)

5.3.8.2 Complementary technologies

- 5.3.8.2. Blockchain
 - 5.3.8.2.2 Digital twins
 - 5.3.8.2.3 Hologram
- 5.3.8.3 Adjacent technologies
- 5.3.8.3. Internet of Things (IoT)
 - 5.3.8.3.2 Virtual Reality (AR) and Augmented Reality (VR)
 - 5.3.8.3.3 Network slicing
 - 5.3.8.3.4 Distributed Ledger Technology (DLT)
- 5.3.9 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS
- 5.3.10 KEY CONFERENCES AND EVENTS, 2024–2025
- 5.3.1 TECHNOLOGY ROADMAP
- 5.3.11. Short-term roadmap (2028–2030)
 - 5.3.11.2 Mid-term roadmap (2031–2033)
 - 5.3.11.3 Long-term roadmap (2034–2035)
- 5.3.12 KEY STAKEHOLDERS AND BUYING CRITERIA
- 5.3.12. Key stakeholders in buying process
 - 5.3.12.2 Buying criteria
- 5.3.13 CURRENT AND EMERGING BUSINESS MODELS
- 5.3.13. Network-as-a-Service (NaaS)
 - 5.3.13.2 AI-powered service monetization
 - 5.3.13.3 Immersive experiences and Extended Reality (XR) platforms
 - 5.3.13.4 IoT and smart infrastructure services
 - 5.3.13.5 Edge computing and decentralized networks
 - 5.3.13.6 Sustainability and green business models
 - 5.3.13.7 Subscription-based holographic and high-definition content delivery
- 5.3.14 BEST PRACTICES OF 6G MARKET
- 5.3.14. Customer-centric service design
 - 5.3.14.2 Focus on sustainability
 - 5.3.14.3 AI-driven network management
 - 5.3.14.4 Spectrum efficiency and utilization
 - 5.3.14.5 Security-first approach
 - 5.3.14.6 User-centric innovations
 - 5.3.14.7 Global standardization alignment
- 5.3.15 6G MARKET: TOOLS, FRAMEWORKS, AND TECHNIQUES
- 5.3.16 INVESTMENT AND FUNDING SCENARIO
- 5.3.17 INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND GENERATIVE AI
- 5.3.17. Impact of generative AI on 6G
 - 5.3.17.2 Use cases of generative AI in 6G market
 - 5.3.17.3 Future of generative AI in 6G market

5.3.18 SIX PILLARS OF 6G

5.3.18. Native AI

5.3.18.2 Networked sensing

5.3.18.3 Extreme connectivity

5.3.18.4 Integrated NTN

5.3.18.5 Trustworthiness

5.3.18.6 Sustainability

5.3.19 6G SPECTRUM LANDSCAPE

5.3.19. Sub-6 GHz (Below 6GHZ)

5.3.19.2 Mid-Band (6HZ – 24HZ)

5.3.19.3 Millimeter Wave Band (24 GHZ – 100 GHZ)

5.3.19.4 Sub-THz (100 GHZ – 300 GHZ)

5.3.20 COMMUNICATION TECHNOLOGIES RELEVANT TO 6G

5.3.20. Terahertz communication

5.3.20.2 Spatial Modulation (SM) MIMO

5.3.20.3 Large Intelligent Surfaces (LIS) and Holographic Beamforming (HBF)

5.3.20.4 Laser Visible Light Communication (VLC)

5.3.20.5 Orbital Angular Momentum (OAM) multiplexing

5.3.20.6 Blockchain-based spectrum sharing

5.3.20.7 Quantum communication and computing

5.3.20.8 Artificial Intelligence (AI) and Machine Learning (ML)

5.3.2 6G NETWORK CHARACTERISTICS

5.3.21. Intelligentization

5.3.21.2 Cloudization

5.3.21.3 Softwarization

5.3.21.4 Virtualization

5.3.21.5 Slicing

6 6G MARKET, BY ENTERPRISE APPLICATION

6. INTRODUCTION

6.1. ENTERPRISE APPLICATIONS: 6G MARKET DRIVERS

6.2 HOLOGRAPHIC COMMUNICATIONS

6.2. NEED FOR VIRTUAL MEETINGS TO DRIVE GROWTH

6.3 TACTILE/HAPTIC INTERNET

6.3. TACTILE/HAPTIC INTERNET TO ENGAGE WITH DIGITAL ENVIRONMENTS THROUGH TOUCH AND PROPRIOCEPTION

6.4 FULL AUTOMATED DRIVING

6.4. NEED FOR HIGH DATA RATES FOR SENSOR AND CAMERA TRANSMISSIONS IN AUTOMATED DRIVING SYSTEMS TO PROPEL MARKET

6.5 INDUSTRY 5.0

6.5. DECENTRALIZED MANUFACTURING SYSTEMS AND AUTOMATED MANUFACTURING PROCESSES TO FUEL MARKET GROWTH

6.6 INTERNET OF BIO-NANO-THINGS (IOBNT)

6.6. NEED FOR REAL-TIME HEALTH DATA FROM BIO-NANO SENSORS TO ACCELERATE MARKET GROWTH

6.7 OTHER ENTERPRISE APPLICATIONS

7 6G MARKET, BY USAGE SCENARIO

7. INTRODUCTION

7.1. USAGE SCENARIOS: 6G MARKET DRIVERS

7.2 FURTHER-ENHANCED MOBILE BROADBAND (FEMBB)

7.2. NEED FOR HIGH-SPEED CONNECTIVITY IN DENSELY POPULATED URBAN AREAS TO FUEL MARKET GROWTH

7.3 EXTREMELY RELIABLE LOW-LATENCY COMMUNICATION (ERLLC)

7.3. EXTREMELY RELIABLE LOW-LATENCY COMMUNICATION TO PROVIDE UNPARALLELED RELIABILITY AND MINIMAL LATENCY FOR APPLICATIONS DEMANDING INSTANTANEOUS RESPONSE TIMES

7.4 LONG-DISTANCE AND HIGH-MOBILITY COMMUNICATIONS (LDHMC)

7.4. NEED FOR SEAMLESS COMMUNICATION IN DYNAMIC ENVIRONMENTS TO BOLSTER MARKET GROWTH

7.5 ULTRA-MASSIVE MACHINE TYPE COMMUNICATIONS (UMMTC)

7.5. NEED FOR LOW-LATENCY CONNECTIONS TO SUPPORT VAST NETWORKS OF SENSORS TO BOOST MARKET GROWTH

7.6 EXTREMELY LOW POWER COMMUNICATIONS (ELPC)

7.6. 6G'S ABILITY TO SUPPORT ADAPTIVE POWER LEVELS TO ENABLE DEVICES TO OPTIMIZE ENERGY TO DRIVE MARKET GROWTH

8 6G MARKET, BY COMMUNICATION INFRASTRUCTURE

8. INTRODUCTION

8.1. COMMUNICATION INFRASTRUCTURE: 6G MARKET DRIVERS

8.2 CELLULAR

8.2. INCREASING DEMAND FOR HIGH-SPEED MOBILE NETWORKS TO

ACCELERATE MARKET GROWTH

8.3 BROADBAND

8.3. EXPANSION OF HIGH INTERNET CONNECTIVITY IN RURAL AND REMOTE AREAS TO FUEL MARKET GROWTH

8.4 FIXED

8.4. INCREASING DEMAND FOR HIGH-SPEED AND RELIABLE CONNECTIVITY IN STATIONARY ENVIRONMENTS TO BOLSTER MARKET GROWTH

9 6G MARKET, BY END USER

9. INTRODUCTION

9.1. END USERS: 6G MARKET DRIVERS

9.2 CONSUMERS

9.2. EXPANSION OF DIGITAL CONTENT TO BOOST SATELLITE SERVICE GROWTH

9.3 ENTERPRISES

9.3. MANUFACTURING

9.3.1. 6G to transform manufacturing by delivering digital twin technology, intelligent supply chains, autonomous vehicle assembly, mobile robotics, and data security in real-time

9.3.1.2 Use cases

9.3.1.2. Quality control

9.3.1.2.2 Remote operation & control

9.3.2 HEALTHCARE & LIFE SCIENCES

9.3.2. Remote patient monitoring and AI-driven diagnostics to drive market

9.3.2.2 Use cases

9.3.2.2. AI-driven diagnostics

9.3.2.2.2 Drug development & research

9.3.2.2.3 Virtual Reality (VR) therapy

9.3.3 MEDIA & ENTERTAINMENT

9.3.3. Demand for high-definition and live-streaming content to accelerate market growth

9.3.3.2 Use cases

9.3.3.2. Ultra-high-definition streaming

9.3.3.2.2 Real-time content creation and collaboration

9.3.3.2.3 Content distribution & delivery

9.3.4 AUTOMOTIVE

9.3.4. Enhanced 6G leveraged eGovernance services to enhance market growth

9.3.4.2 Use cases

9.3.4.2. Remote vehicle control

9.3.4.2.2 Augmented reality navigation

9.3.5 AEROSPACE & DEFENSE

9.3.5. 6G-based secure and reliable communication channels to drive market growth

9.3.5.2 Use cases

9.3.5.2. Enhanced drone operations

9.3.5.2.2 Augmented reality for pilot training

9.3.5.2.3 Enhanced electronic warfare capabilities

9.3.6 OTHER ENTERPRISES

9.3.6. Use cases

9.3.6.1. Energy efficiency optimization

9.3.6.1.2 Virtual laboratories and simulations

9.3.6.1.3 Automated checkout systems

10 6G MARKET, BY REGION

10. INTRODUCTION

10.2 NORTH AMERICA

10.2. NORTH AMERICA: MACROECONOMIC OUTLOOK

10.2.2 US

10.2.2. Strategic focus on advancing next-generation wireless communications and government initiatives and collaborations to drive market

10.2.3 CANADA

10.2.3. Government initiatives for collaboration and investments in next-generation technologies to propel market

10.3 EUROPE

10.3. EUROPE: MACROECONOMIC OUTLOOK

10.3.2 UK

10.3.2. Funding from research institutions and government organizations to fuel market growth

10.3.3 GERMANY

10.3.3. Initiatives by government to expand low-cost connectivity to spur market growth

10.3.4 FRANCE

10.3.4. 6G platform to unite ecosystems, identify key technologies, and position companies to gain competitive edge

10.3.5 REST OF EUROPE

10.4 ASIA PACIFIC

10.4. ASIA PACIFIC: MACROECONOMIC OUTLOOK

10.4.2 CHINA

10.4.2. Innovative technological developments in 6G technology to drive growth

10.4.3 INDIA

10.4.3. Increasing focus on eliminating digital or rural-urban divide to accelerate market growth

10.4.4 JAPAN

10.4.4. Increased participation of private players and global collaboration with major players to fuel market growth

10.4.5 SOUTH KOREA

10.4.5. Government investments and initiatives and implementation of K-Network 2030 strategy to drive market

10.4.6 REST OF ASIA PACIFIC

10.5 MIDDLE EAST & AFRICA

10.5. MIDDLE EAST & AFRICA: MACROECONOMIC OUTLOOK

10.5.2 UAE

10.5.2. Global technological advancements, presence of major players, and focus on digitalization to bolster market growth

10.5.3 KSA

10.5.3. Saudi Arabia's Vision 2030 to drive rapid development of 6G

10.5.4 REST OF MIDDLE EAST & AFRICA

10.6 LATIN AMERICA

10.6. LATIN AMERICA: MACROECONOMIC OUTLOOK

10.6.2 BRAZIL

10.6.2. 6G research and government funding to drive market

10.6.3 MEXICO

10.6.3. Investments from major telecom companies and government initiatives to propel market

10.6.4 REST OF LATIN AMERICA

1 COMPETITIVE LANDSCAPE

11. INTRODUCTION

11.2 COMPANY VALUATION AND FINANCIAL METRICS OF KEY 6G SERVICE PROVIDERS

11.3 COMPARATIVE ANALYSIS OF 4G, 5G, AND 6G

11.4 COMPETITIVE SCENARIO

11.4. PRODUCT LAUNCHES

11.4.2 DEALS

11.4.3 OTHER DEALS/DEVELOPMENTS, JANUARY 2021–AUGUST 2024

12 COMPANY PROFILES

12. INTRODUCTION

12.2 KEY PLAYERS

12.2. AT&T

12.2.1. Business overview

12.2.1.2 6G schedule outlook

12.2.1.3 Recent developments

12.2.1.3. Deals

12.2.1.4 MnM view

12.2.1.4. Right to win

12.2.1.4.2 Strategic choices

12.2.1.4.3 Weaknesses and competitive threats

12.2.2 NTT DOCOMO

12.2.2. Business overview

12.2.2.2 6G schedule outlook

12.2.2.3 Recent developments

12.2.2.3. Product launches

12.2.2.3.2 Deals

12.2.2.4 MnM view

12.2.2.4. Right to win

12.2.2.4.2 Strategic choices

12.2.2.4.3 Weaknesses and competitive threats

12.2.3 JIO

12.2.3. Business overview

12.2.3.2 6G schedule outlook

12.2.3.3 Recent developments

12.2.3.3. Deals

12.2.3.4 MnM view

12.2.3.4. Right to win

12.2.3.4.2 Strategic choices

12.2.3.4.3 Weaknesses and competitive threats

12.2.4 BHARTI AIRTEL

12.2.4. Business overview

12.2.4.2 6G schedule outlook

12.2.4.3 Recent developments

12.2.4.3. Deals

12.2.4.4 MnM view

12.2.4.4. Right to win

12.2.4.4.2 Strategic choices

12.2.4.4.3 Weaknesses and competitive threats

12.2.5 VODAFONE

12.2.5. Business overview

12.2.5.2 6G schedule outlook

12.2.5.3 Recent developments

12.2.5.3. Deals

12.2.5.4 MnM view

12.2.5.4. Right to win

12.2.5.4.2 Strategic choices

12.2.5.4.3 Weaknesses and competitive threats

12.2.6 SK TELECOM

12.2.6. Business overview

12.2.6.2 6G schedule outlook

12.2.6.3 Recent developments

12.2.6.3. Deals

12.2.6.4 MnM view

12.2.6.4. Right to win

12.2.6.4.2 Strategic choices

12.2.6.4.3 Weaknesses and competitive threats

12.2.7 VERIZON

12.2.7. Business overview

12.2.7.2 6G schedule outlook

12.2.7.3 MnM view

12.2.7.3. Right to win

12.2.7.3.2 Strategic choices

12.2.7.3.3 Weaknesses and competitive threats

12.2.8 DEUTSCHE TELEKOM

12.2.8. Business overview

12.2.8.2 6G schedule outlook

12.2.8.3 MnM view

12.2.8.3. Right to win

- 12.2.8.3.2 Strategic choices
- 12.2.8.3.3 Weaknesses and competitive threats
- 12.2.9 TELEFONICA S.A
- 12.2.9. Business overview
 - 12.2.9.2 6G schedule outlook
 - 12.2.9.3 Recent developments
 - 12.2.9.3. Deals
 - 12.2.9.4 MnM view
 - 12.2.9.4. Right to win
 - 12.2.9.4.2 Strategic choices
 - 12.2.9.4.3 Weaknesses and competitive threats
- 12.2.10 CHINA MOBILE
- 12.2.10. Business overview
 - 12.2.10.2 6G schedule outlook
 - 12.2.10.3 Recent developments
 - 12.2.10.3. Deals
 - 12.2.10.4 MnM view
 - 12.2.10.4. Right to win
 - 12.2.10.4.2 Strategic choices
 - 12.2.10.4.3 Weaknesses and competitive threats
- 12.2.1 CHINA UNICOM
- 12.2.11. Business overview
 - 12.2.11.2 6G schedule outlook
 - 12.2.11.3 MnM view
 - 12.2.11.3. Right to win
 - 12.2.11.3.2 Strategic choices
 - 12.2.11.3.3 Weaknesses and competitive threats
- 12.2.12 ORANGE
- 12.2.12. Business overview
 - 12.2.12.2 6G schedule outlook
 - 12.2.12.3 Recent developments
 - 12.2.12.3. Deals
 - 12.2.12.4 MnM view
 - 12.2.12.4. Right to win
 - 12.2.12.4.2 Strategic choices
 - 12.2.12.4.3 Weaknesses and competitive threats
- 12.2.13 RAKUTEN GROUP
- 12.2.13. Business overview
 - 12.2.13.2 6G schedule outlook

12.2.13.3 Recent developments

12.2.13.3. Deals

12.2.13.4 MnM view

12.2.13.4. Right to win

12.2.13.4.2 Strategic choices

12.2.13.4.3 Weaknesses and competitive threats

12.2.14 KT CORPORATION

12.2.14. Business overview

12.2.14.2 6G schedule outlook

12.2.14.3 Recent developments

12.2.14.3. Deals

12.2.14.4 MnM view

12.2.14.4. Right to win

12.2.14.4.2 Strategic choices

12.2.14.4.3 Weaknesses and competitive threats

12.2.15 SINGTEL

12.2.15. Business overview

12.2.15.2 6G schedule outlook

12.2.15.3 Recent developments

12.2.15.3. Deals

12.2.15.4 MnM view

12.2.15.4. Right to win

12.2.15.4.2 Strategic choices

12.2.15.4.3 Weaknesses and competitive threats

12.2.16 KDDI CORPORATION

12.2.16. Business overview

12.2.16.2 6G SCHEDULE OUTLOOK

12.2.16.3 Recent developments

12.2.16.3. Deals

12.2.16.4 MnM view

12.2.16.4. Right to win

12.2.16.4.2 Strategic choices

12.2.16.4.3 Weaknesses and competitive threats

13 ADJACENT/RELATED MARKETS

13. INTRODUCTION

13.2 SMALL CELL 5G NETWORK MARKET

6G Market by Enterprise Application (Holographic Communication, Tactile/Haptic Internet, Fully Automated Drivi...

13.2. MARKET OVERVIEW

13.2.2 SMALL CELL 5G NETWORK MARKET, BY COMPONENT

13.2.2. Solutions

13.2.2.2 Services

13.2.3 SMALL CELL 5G NETWORK MARKET, BY CELL TYPE

13.2.4 SMALL CELL 5G NETWORK MARKET, BY DEPLOYMENT MODE

13.2.5 SMALL CELL 5G NETWORK MARKET, BY RADIO TECHNOLOGY

13.2.6 SMALL CELL 5G NETWORK MARKET, BY END USER

13.2.7 SMALL CELL 5G NETWORK MARKET, BY REGION

13.3 5G IOT MARKET

13.3. MARKET DEFINITION

13.3.2 MARKET OVERVIEW

13.3.3 5G IOT MARKET, BY COMPONENT

13.3.4 5G IOT MARKET, BY NETWORK TYPE

13.3.5 5G IOT MARKET, BY END USER

13.3.6 5G IOT MARKET, BY REGION

14 APPENDIX

14. DISCUSSION GUIDE

14.2 KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL

14.3 CUSTOMIZATION OPTIONS

14.4 RELATED REPORTS

14.5 AUTHOR DETAILS

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