

Metaverse Market for Automotive by Products (Software, Hardware), Technology (Virtual Reality (VR), Augmented Reality (AR), Mixed Reality (MR), Non-fungible Token (NFT), Blockchain), Function, Application & Region - Global Forecast to 2030

Market Report | 2022-09-13 | 247 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

Report description:

The global metaverse market for automotive is projected to grow from USD 1.9 Billion in 2022 to USD 16.5 Billion by 2030, at a CAGR of 31.4%. The concept of digital twin factories and virtual showrooms in the virtual space is in trend among automotive OEMs and dealers at present has triggered the growth of automotive metaverse industry. Many software companies and startups have developed AR/VR technologies and are still doing research and development towards the incorporation of metaverse applications in the automotive sectors. Users and customers are showing their interest in the NFTs and crypto to be used in the asset marketplace in the virtual space. Metaverse technologies has made the things much more convenient in the field of simulation and testing the vehicle. The metaverse market for automotive is dominated by established players such as NVIDIA (US), Roblox Corporation (US), Unity Technologies (US), Meta Platforms Inc. (US), and WayRay (Switzerland). They develop products and provide service offerings for the automotive metaverse ecosystem.

"Advertisement applications to be leveraged at a higher level by automotive manufacturers and dealers during the forecast period."

Many automotive manufacturers and dealers have leveraged metaverse technologies to showcase their products in virtual space. OEMs have leveraged NFT releases, new product launches (of automobiles), virtual marketing events, and other resources. Meta, for instance, has been selling virtual billboards as part of its metaverse. The company has allowed dealerships to sell cars directly through its online platform and allowed digital purchase rights of virtual estates for showrooms. Many local dealerships across regions have leveraged this platform. With the rising usage of metaverse, the market for advertising in the metaverse will grow exponentially, with companies finding new ways to advertise on these platforms. The concept of virtual showrooms has grown rapidly across the automotive industry, where companies can advertise their products virtually without leveraging actual cars. The

tel. 0048 603 394 346 e-mail: support@scotts-international.com www.scotts-international.com

company plans to reduce costs by launching its cars only in the virtual space.

"North America is likely to be the largest market during the forecast period."

North America has the largest metaverse market for the automotive industry. Software is expected to be the largest segment in this region, with top software and metaverse platform providers like Roblox, Unity Technologies, Epic Games, Upland, and Sandbox, among others, present in this region. The presence of top metaverse hardware providers like Microsoft, Meta, NVIDIA, and Qualcomm, among others, and a large part of the population using metaverse will make this the largest metaverse market for automotive. The US is expected to lead the market in this region due to the presence of most metaverse ecosystem providers in the country. Metaverse software and platform providers like Roblox (US), Unity Technologies (US), Upland (US), Sandbox (US), and Epic Games (US) have been key players in this region. These companies have been working with OEMs to provide software for the metaverse market for automotive. Roblox and Unity Technologies have worked with Hyundai for metaverse solutions. Similarly, Ferrari has worked with Epic Games for its metaverse offering for digital assets.

In-depth interviews were conducted with CEOs, marketing directors, other innovation and technology directors, and executives from various key organizations operating in this market.

- -¬By Company Type: Metaverse Ecosystem Providers 67%, Others 9%, and OEMs 24%
- By Designation: CXOs 33%, Managers 52%, Executives 15%
- By Region: North America 20%, Europe 31%, Asia Pacific 41%, Rest of the World 8%

The metaverse market for automotive is dominated by established players such as NVIDIA (US), Roblox Corporation (US), Unity Technologies (US), Meta Platforms Inc. (US), and WayRay (Switzerland). They develop products and provide service offerings for the automotive metaverse ecosystem. They have initiated partnerships to develop their metaverse technology and provide finished products and services to their respective customers in the metaverse market for automotive.

Research Coverage:

The report covers the metaverse market for automotive in terms of Offering, Products (Hardware, Software, Others), Technology (AR, VR, MR), Application & Region (Asia Pacific, Europe and North America). It covers the competitive landscape and company profiles of the major players in the metaverse market for automotive ecosystem.

The study also includes an in-depth competitive analysis of the key players in the market, along with their company profiles, key observations related to product and business offerings, recent developments, and key market strategies.

Key Benefits of Buying the Report:

- The report will help market leaders/new entrants in this market with information on the closest approximations of revenue numbers for the overall metaverse market for automotive and its subsegments.
- This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies.
- The report also helps stakeholders understand the pulse of the market and provides them information on key market drivers, restraints, challenges, and opportunities.

Table of Contents:

1[INTRODUCTION[21

1.1∏STUDY OBJECTIVES∏21

1.2∏MARKET DEFINITION∏21

TABLE 1 METAVERSE MARKET FOR AUTOMOTIVE DEFINITION, BY OFFERING 22

TABLE 2 METAVERSE MARKET FOR AUTOMOTIVE DEFINITION, BY PRODUCT 22

TABLE 3 METAVERSE MARKET FOR AUTOMOTIVE DEFINITION, BY TECHNOLOGY 23

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

TABLE 4 METAVERSE MARKET FOR AUTOMOTIVE DEFINITION, BY APPLICATION 24

1.2.1 INCLUSIONS AND EXCLUSIONS 24

TABLE 5 INCLUSIONS AND EXCLUSIONS IN METAVERSE MARKET FOR AUTOMOTIVE 24

1.3 MARKET SCOPE 25

FIGURE 1 MARKETS COVERED 25

1.3.1 □ REGIONS COVERED □ 25

1.3.2 YEARS CONSIDERED 26

1.4□CURRENCY CONSIDERED□26

TABLE 6 CURRENCY EXCHANGE RATES 26

1.5 ☐ STAKEHOLDERS ☐ 27

2∏RESEARCH METHODOLOGY∏28

2.1 RESEARCH DATA 28

FIGURE 2∏METAVERSE MARKET FOR AUTOMOTIVE: RESEARCH DESIGN□28

FIGURE 3∏RESEARCH DESIGN MODEL 29

2.1.1 SECONDARY DATA 29

2.1.1.1 Key secondary sources 30

2.1.1.2 Key data from secondary sources 31

2.1.2 PRIMARY DATA 31

2.1.2.1 Primary interviews - demand and supply sides 32

2.1.2.2 Key industry insights and breakdown of primary interviews 32

FIGURE 4∏KEY INDUSTRY INSIGHTS∏32

FIGURE 5∏BREAKDOWN OF PRIMARY INTERVIEWS∏33

2.1.2.3 List of primary participants 33

2.2 MARKET SIZE ESTIMATION 34

FIGURE 6 RESEARCH METHODOLOGY: HYPOTHESIS BUILDING 35

2.2.1 SUPPLY-SIDE APPROACH 35

FIGURE 7□VENDOR ANALYSIS FOR MARKET SIZE AND RANKING□36

2.2.2 TOP-DOWN APPROACH 36

FIGURE 8[TOP-DOWN APPROACH: METAVERSE MARKET FOR AUTOMOTIVE[]37

FIGURE 9 METAVERSE MARKET FOR AUTOMOTIVE: MARKET ESTIMATION NOTES 37

2.3□DATA TRIANGULATION□38

FIGURE 10 □ DATA TRIANGULATION METHODOLOGY □ 38

2.4□FACTOR ANALYSIS□39

FIGURE 11 MARKET GROWTH PROJECTIONS FROM DEMAND-SIDE DRIVERS AND OPPORTUNITIES 39

FIGURE 12 FACTOR ANALYSIS FOR MARKET SIZING: DEMAND AND SUPPLY SIDE 40

2.5 RESEARCH ASSUMPTIONS 41

2.6 RESEARCH LIMITATIONS 42

3∏EXECUTIVE SUMMARY∏43

TABLE 7□CURRENT STATE OF THE METAVERSE□44

FIGURE 13 METAVERSE MARKET FOR AUTOMOTIVE: MARKET OVERVIEW 45

FIGURE 14∏METAVERSE MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION)∏46

FIGURE 15 METAVERSE MARKET FOR AUTOMOTIVE: REVENUE DISTRIBUTION (2022) 47

FIGURE 16 VIRTUAL PLATFORMS/SPACES EXPECTED TO BE LARGEST MARKET DURING FORECAST PERIOD (2022-2030) 47

4□PREMIUM INSIGHTS□48

4.1∏ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN METAVERSE MARKET FOR AUTOMOTIVE∏48

FIGURE 17 OEM SHIFT TO METAVERSE-BASED ADVERTISEMENTS TO DRIVE MARKET 48

4.2□METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT□48

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

FIGURE 18 SOFTWARE TO BE LARGEST SEGMENT (2022-2030) 48

4.3 METAVERSE MARKET FOR AUTOMOTIVE, BY TECHNOLOGY 49

FIGURE 19 MR TO GROW AT FASTER RATE (2022-2030) 49

4.4□METAVERSE MARKET FOR AUTOMOTIVE, BY OFFERING□49

FIGURE 20 VIRTUAL PLATFORMS/SPACES TO OCCUPY LARGEST SHARE (2022-2030) 49

4.5 METAVERSE MARKET FOR AUTOMOTIVE, BY APPLICATION 50

FIGURE 21 ADVERTISING TO LEAD MARKET DURING FORECAST PERIOD (2022-2030) 50

4.6 METAVERSE MARKET FOR AUTOMOTIVE, BY REGION 50

FIGURE 22 NORTH AMERICA PROJECTED TO BE LARGEST MARKET 50

5 MARKET OVERVIEW 51

5.1∏INTRODUCTION∏51

FIGURE 23∏AUTOMOTIVE APPLICATIONS IN METAVERSE MARKET∏51

FIGURE 24 METAVERSE, FROM PAST TO FUTURE 52

5.2 MARKET DYNAMICS □ 52

FIGURE 25 METAVERSE MARKET FOR AUTOMOTIVE: MARKET DYNAMICS 53

5.2.1 □ DRIVERS □ 53

5.2.1.1 Brand promotions for automotive OEMs using gamification 53

FIGURE 26 FACTORS THAT MAKE ADVERTISING IMPORTANT IN METAVERSE 54

5.2.1.2 Growing demand for automobile simulators in related industries 54

FIGURE 27∏WAYRAY'S HOLOGRAKTOR ON METAVERSE∏55

5.2.1.3 Availability of affordable hardware 55

FIGURE 28 HARDWARE USED IN METAVERSE 56

5.2.1.4 Use of metaverse in automotive design 56

FIGURE 29 FORD DESIGNED NEW CAR ENTIRELY USING VR 57

5.2.1.5 Wider adoption of AR/VR across industries 57

FIGURE 30 ADOPTION OF AR/VR TECHNOLOGY ACROSS INDUSTRIES 58

5.2.2 □ RESTRAINTS □ 58

5.2.2.1 Installation and maintenance cost of high-end components 58

5.2.2.2 Health and mental issues from extended use 59

FIGURE 31∏HARMFUL EFFECTS OF LOW-FREQUENCY WAVES ON USE OF DEVICES FOR METAVERSE∏59

5.2.3 OPPORTUNITIES 60

5.2.3.1 □Incorporation of metaverse in automotive infotainment □60

5.2.3.2□Continuous developments in 5G and higher band technologies□60

FIGURE 32 EXPECTED 5G PENETRATION BY 2025 60

5.2.3.3 Virtual experience as a trial before buying automobiles 61

FIGURE 33 INISSAN LAUNCHED NISSAN SAKURA THROUGH VIRTUAL TEST DRIVING USING METAVERSE [61]

5.2.4 CHALLENGES 61

5.2.4.1 Cybersecurity and privacy challenges 61

FIGURE 34 CYBERSECURITY WILL BE MAIN HURDLE FOR METAVERSE POPULARIZATION 62

5.2.4.2 Local government restrictions with environmental impact 62

TABLE 8 METAVERSE MARKET FOR AUTOMOTIVE: IMPACT OF MARKET DYNAMICS 63

5.3 PORTER'S FIVE FORCES ☐ 64

FIGURE 35 PORTER'S FIVE FORCES: METAVERSE MARKET FOR AUTOMOTIVE 64

TABLE 9 METAVERSE MARKET: PORTER'S FIVE FORCES ANALYSIS 65

5.3.1 INTENSITY OF COMPETITIVE RIVALRY 65

5.3.2 BARGAINING POWER OF SUPPLIERS 65

5.3.3 BARGAINING POWER OF BUYERS 66

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

- 5.3.4 THREAT OF NEW ENTRANTS 66
- 5.3.5 THREAT OF SUBSTITUTES 66
- 5.4 METAVERSE MARKET ECOSYSTEM FOR AUTOMOTIVE 67

FIGURE 36 METAVERSE MARKET FOR AUTOMOTIVE: ECOSYSTEM ANALYSIS 67

- 5.4.1 HARDWARE PROVIDERS 68
- 5.4.2 SOFTWARE PROVIDERS 68
- 5.4.3 CLOUD SERVICE/DATA CENTER PROVIDERS 68
- 5.4.4 METAVERSE PLATFORM PROVIDERS 68
- 5.4.5 FINANCIAL SERVICES 68
- 5.4.6 | AUTOMOTIVE SIMULATORS | 68
- 5.4.7∏OTHER SERVICES∏68
- 5.4.8 | OEMS | 168
- 5.4.9 END USERS 69

TABLE 10 METAVERSE MARKET FOR AUTOMOTIVE: ROLE OF COMPANIES IN ECOSYSTEM 69

?

5.5 SUPPLY CHAIN ANALYSIS 70

FIGURE 37 SUPPLY CHAIN ANALYSIS OF METAVERSE MARKET FOR AUTOMOTIVE 71

5.6 KEY CONFERENCES AND EVENTS, 2022-2023 72

TABLE 11 METAVERSE MARKET FOR AUTOMOTIVE: LIST OF CONFERENCES AND EVENTS 72

5.7 KEY OEMS IN METAVERSE MARKET FOR AUTOMOTIVE 73

FIGURE 38 KEY OEMS IN METAVERSE MARKET FOR AUTOMOTIVE 173

5.8 TECHNOLOGY ANALYSIS 73

5.8.1 TECHNOLOGY STACK 73

FIGURE 39 | METAVERSE MARKET FOR AUTOMOTIVE: TECHNOLOGIES | 73

- 5.8.2 INFRASTRUCTURE LEVEL 74
- 5.8.2.1 | 5G network | 74
- 5.8.2.2∏loT∏74
- 5.8.2.3 Cloud and edge computing 74
- 5.8.3 DESIGN AND DEVELOPMENT LEVEL 75
- 5.8.3.1 Blockchain 75
- 5.8.3.2 D modeling and real-time rendering 75
- 5.8.3.3 \ AI, NLP, and computer vision \ 75
- 5.8.4 HUMAN INTERACTION LEVEL 76
- 5.8.4.1 VR 76
- 5.8.4.2∏AR∏76
- 5.8.4.2.1 Mobile AR ☐ 76
- 5.8.4.2.2 Monitor-based AR 177
- 5.8.4.2.3 Near-eye-based AR 77
- 5.8.4.2.4 | Web AR | 78
- 5.8.4.3∏MR∏78
- 5.9□PATENT ANALYSIS□78

FIGURE 40 NUMBER OF PATENTS PUBLISHED, 2011-2021 79

FIGURE 41 TOP FIVE PATENT OWNERS (GLOBAL) 79

TABLE 12□TOP 10 PATENT OWNERS (US)□80

TABLE 13[IMPORTANT PATENT REGISTRATIONS RELATED TO METAVERSE MARKET FOR AUTOMOTIVE[]80

5.10 KEY ENABLERS OF METAVERSE 83

FIGURE 42 KEY ENABLERS OF THE METAVERSE 83

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

```
5.11 CASE STUDY ANALYSIS 84
```

5.11.1 CASE STUDY 1: META FACTORY SETUP 84

5.11.2 CASE STUDY 2: LEVERAGING METAVERSE IN AUTOMOBILE INDUSTRY 84

5.11.3 CASE STUDY 3: PERFORMING SIMULATIONS FOR SMART MANUFACTURING 85

5.11.4 CASE STUDY 4: PRODUCTION OF NEW CAR USING METAVERSE 85

5.11.5 CASE STUDY 5: DEVELOPMENT OF MGVERSE 85

5.11.6 CASE STUDY 6: DEVELOPMENT OF HYUNDAI MOBILITY ADVENTURE 186

5.11.7 CASE STUDY 7: DEVELOPMENT OF AR IN INFORMATION DISPLAY 86

5.11.8 CASE STUDY 8: ANNOUNCEMENT OF MCLAREN RACING COLLECTIVE 86

5.11.9 CASE STUDY 9: ANNOUNCEMENT OF ALFA ROMEO NFTS 87

5.11.10 CASE STUDY 10: DEVELOPMENT OF VOLVOVERSE 87

5.11.11 CASE STUDY 11: SMART SERVICING AND REPAIR 87

5.12 ⊓ REGULATORY LANDSCAPE □ 88

5.12.1 ⊓REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS □88

TABLE 14∏NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS∏88

TABLE 15 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 89

TABLE 16 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 190

TABLE 17 REST OF WORLD: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 191

5.12.2 REGULATORY IMPLICATIONS AND INDUSTRY STANDARDS 92

TABLE 18 MAJOR REGULATIONS REQUIRED FOR AUTOMOTIVE METAVERSE 93

5.13 TRENDS AND DISRUPTIONS 94

FIGURE 43 METAVERSE MARKET FOR AUTOMOTIVE: TRENDS AND DISRUPTIONS 94

5.14 METAVERSE MARKET FOR AUTOMOTIVE, SCENARIO ANALYSIS (2022-2030) 95

FIGURE 44∏METAVERSE MARKET FOR AUTOMOTIVE: FUTURE TRENDS & SCENARIOS, 2021-2030 (USD MILLION)∏95

5.14.1 MOST LIKELY SCENARIO 95

TABLE 19 METAVERSE MARKET FOR AUTOMOTIVE (MOST LIKELY), BY REGION, 2022-2030 (USD MILLION) 95

5.14.2 | OPTIMISTIC SCENARIO | 96

TABLE 20 METAVERSE MARKET FOR AUTOMOTIVE (OPTIMISTIC), BY REGION, 2022-2030 (USD MILLION) 96

5.14.3 PESSIMISTIC SCENARIO 97

TABLE 21 METAVERSE MARKET FOR AUTOMOTIVE (PESSIMISTIC), BY REGION, 2022-2030 (USD MILLION) 97

6☐METAVERSE MARKET FOR AUTOMOTIVE, BY OFFERING☐98

6.1∏INTRODUCTION∏99

FIGURE 45 VIRTUAL PLATFORMS/SPACE TO BE LARGEST SEGMENT DURING FORECAST PERIOD 99

TABLE 22 METAVERSE MARKET FOR AUTOMOTIVE, BY OFFERING, 2018-2021 (USD MILLION) 99

TABLE 23 METAVERSE MARKET FOR AUTOMOTIVE, BY OFFERING, 2022-2030 (USD MILLION) 100

6.1.1□OPERATIONAL DATA□100

TABLE 24 METAVERSE: COMPANY OFFERINGS 100

6.1.2□ASSUMPTIONS□101

TABLE 25 ASSUMPTIONS: BY OFFERING 101

6.1.3 RESEARCH METHODOLOGY 101

?

6.2 VIRTUAL PLATFORMS/SPACES 101

6.2.1 GROWING DEMAND FOR AR/VR APPLICATIONS 101

TABLE 26 TOP COLLABORATIONS BETWEEN OEMS AND METAVERSE PROVIDERS 102

TABLE 27 VIRTUAL PLATFORM/SPACE, BY REGION, 2018-2021 (USD MILLION) 102

TABLE 28 \square VIRTUAL PLATFORM/SPACE, BY REGION, 2022-2030 (USD MILLION) \square 103

6.3 AVATARS 103

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

6.3.1 UIRTUAL ENVIRONMENT TO CREATE OPPORTUNITIES 103

TABLE 29 AVATARS, BY REGION, 2018-2021 (USD MILLION) 103

TABLE 30□AVATARS, BY REGION, 2022-2030 (USD MILLION)□104

6.4∏ASSET MARKETPLACES∏104

6.4.1 GROWING NFT AND SDK DEMAND 104

TABLE 31 ASSET MARKETPLACE, BY REGION, 2018-2021 (USD MILLION) 104

TABLE 32 ASSET MARKETPLACE, BY REGION, 2022-2030 (USD MILLION) 105

6.5∏FINANCIAL SERVICES∏105

6.5.1 INCREASING TRADE OF DIGITAL ASSETS IN BLOCKCHAIN AND CRYPTOCURRENCY 105

TABLE 33∏FINANCIAL SERVICES, BY REGION, 2018-2021 (USD MILLION)∏105

TABLE 34∏FINANCIAL SERVICES, BY REGION, 2022-2030 (USD MILLION)∏106

6.6 REY PRIMARY INSIGHTS 106

7⊓METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT□107

7.1∏INTRODUCTION∏108

FIGURE 46∏SOFTWARE SEGMENT TO LEAD MARKET DURING FORECAST PERIOD∏108

TABLE 35 METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2018-2021 (USD MILLION) 108

TABLE 36 METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2022-2030 (USD MILLION) 109

7.1.1 OPERATIONAL DATA 109

TABLE 37 METAVERSE ECOSYSTEM: WHAT COMPANIES ARE WORKING ON 109

7.1.2∏ASSUMPTIONS∏110

TABLE 38 ASSUMPTIONS: BY PRODUCT 110

7.1.3□RESEARCH METHODOLOGY□110

7.2∏HARDWARE∏110

7.2.1 INCREASED USE OF XR HARDWARE IN AUTOMOTIVE 110

TABLE 39 MAJOR HARDWARE USED/TO BE USED IN AUTOMOTIVE METAVERSE 111

TABLE 40 METAVERSE HARDWARE MARKET, BY REGION, 2018-2021 (USD MILLION) 112

TABLE 41 METAVERSE HARDWARE MARKET, BY REGION, 2022-2030 (USD MILLION) 112

7.3□SOFTWARE□113

7.3.1 GROWING NUMBER OF METAVERSE SOFTWARE PROVIDERS 113

TABLE 42∏MAJOR SOFTWARE TYPES AND THEIR USE CASES IN AUTOMOTIVE METAVERSE∏113

TABLE 43 METAVERSE SOFTWARE MARKET, BY REGION, 2018-2021 (USD MILLION) 114

TABLE 44 METAVERSE SOFTWARE MARKET, BY REGION, 2022-2030 (USD MILLION) 114

7.4⊓OTHERS⊓115

7.4.1 EXPONENTIAL GROWTH IN DEMAND FOR AUTOMOTIVE NFTS AND FINANCIAL SERVICES 115

TABLE 45∏OTHERS: METAVERSE MARKET, BY REGION, 2018-2021 (USD MILLION)∏115

TABLE 46 \square OTHERS: METAVERSE MARKET, BY REGION, 2022-2030 (USD MILLION) \square 116

7.5 KEY PRIMARY INSIGHTS 116

8 METAVERSE MARKET FOR AUTOMOTIVE, BY TECHNOLOGY 117

8.1□INTRODUCTION□118

FIGURE 47∏AR TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD∏118

TABLE 47 METAVERSE MARKET FOR AUTOMOTIVE, BY TECHNOLOGY, 2018-2021 (USD MILLION) ☐ 118

TABLE 48 \square METAVERSE MARKET FOR AUTOMOTIVE, BY TECHNOLOGY, 2022-2030 (USD MILLION) \square 119

8.1.1 OPERATIONAL DATA 119

TABLE 49□COMPANIES WORKING ON AR/VR/MR TECHNOLOGIES□119

8.1.2 ASSUMPTIONS 120

TABLE 50 ASSUMPTIONS: BY TECHNOLOGY 120

8.1.3 RESEARCH METHODOLOGY 120

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

8.2 AUGMENTED REALITY (AR) 120

8.2.1 NEEDED FOR VIRTUAL SHOWROOMS AND CAR DESIGNING 120

TABLE 51 OEMS AND THEIR AR USE CASES IN AUTOMOTIVE METAVERSE 121

TABLE 52 METAVERSE AR MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION) 123

TABLE 53 METAVERSE AR MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION) 123

8.3 VIRTUAL REALITY (VR) 123

8.3.1 | INCREASING DIGITAL INTERACTIVE APPLICATIONS | 123

TABLE 54 OEMS AND THEIR VR USE CASES IN AUTOMOTIVE METAVERSE 124

TABLE 55 METAVERSE VR MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION) 125

TABLE 56 METAVERSE VR MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION) 125

8.4 MIXED REALITY (MR) 125

8.4.1 □ DECREASING COST OF MR DEVICES □ 125

TABLE 57∏METAVERSE MR MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION)∏126

TABLE 58 METAVERSE MR MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION) 126

8.5 NON-FUNGIBLE TOKEN (NFT) 127

8.5.1 ⊓INCREASING NUMBER OF NFT LAUNCHES BY TOP OEMS □ 127

TABLE 59 OEMS AND THEIR NFT COLLABORATIONS IN AUTOMOTIVE METAVERSE 127

8.6 BLOCKCHAIN 128

8.6.1 GROWING TRADE OF DIGITAL ASSETS 128

8.7∏KEY PRIMARY INSIGHTS∏128

9∏METAVERSE MARKET FOR AUTOMOTIVE, BY APPLICATION∏129

9.1∏INTRODUCTION∏130

FIGURE 48∏ADVERTISING SEGMENT TO DOMINATE DURING FORECAST PERIOD∏130

TABLE 60 METAVERSE MARKET FOR AUTOMOTIVE, BY APPLICATION, 2018-2021 (USD MILLION) 130

TABLE 61 METAVERSE MARKET FOR AUTOMOTIVE, BY APPLICATION, 2022-2030 (USD MILLION) 131

9.1.1 OPERATIONAL DATA 131

TABLE 62∏OEMS AND CURRENT METAVERSE APPLICATIONS∏131

9.1.2 ASSUMPTIONS 132

TABLE 63 ASSUMPTIONS: BY APPLICATION 132

9.1.3 RESEARCH METHODOLOGY 132

9.2 ADVERTISING 132

9.2.1 □ ADVERTISING IN METAVERSE IMPACTING BRAND VALUE □ 132

FIGURE 49∏HOW OEMS ARE ADVERTISING IN METAVERSE∏133

TABLE 64 METAVERSE ADVERTISING MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION) 133

TABLE 65∏METAVERSE ADVERTISING MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION)∏134

9.3 ONLINE CAR PURCHASE 134

9.3.1 PREFERRED BY MILLENNIAL CUSTOMERS 134

TABLE 66∏ONLINE CAR PURCHASE OFFERINGS BY OEMS IN AUTOMOTIVE METAVERSE∏134

TABLE 67 \square METAVERSE ONLINE CAR PURCHASE MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION) \square 135

TABLE 68☐METAVERSE ONLINE CAR PURCHASE MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION)☐136 9.4☐INFOTAINMENT☐136

9.4.1 AR/VR-BASED HMD AND HUD DEVICES FOR IN-CAR INFOTAINMENT 136

TABLE 69 IN-CAR METAVERSE COMPATIBLE AR/VR INFOTAINMENT SYSTEMS 136

TABLE 70∏METAVERSE INFOTAINMENT MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION)∏137

TABLE 71 \square METAVERSE INFOTAINMENT MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION) \square 137

9.5 CAR DESIGN 138

9.5.1 CONVENIENT AND INEXPENSIVE CAR DESIGN USING XR 138

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

TABLE 72 VIRTUAL CAR DESIGN USING AUTOMOTIVE METAVERSE 138

TABLE 73 METAVERSE CAR DESIGN MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION) 139

TABLE 74∏METAVERSE CAR DESIGN MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION)∏139

9.6 AUTONOMOUS CAR TESTING 139

9.6.1 AUTONOMOUS CAR TESTING USING METAVERSE SAVES COST 139

TABLE 75 METAVERSE AUTONOMOUS CAR TESTING MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION) 140 TABLE 76 METAVERSE AUTONOMOUS CAR TESTING MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION) 140

9.7 TRAINING & SIMULATION 141

9.7.1 GROWING DEMAND AMONG NOVICE AND PROFESSIONAL DRIVERS 141

TABLE 77 DRIVING SIMULATORS IN AUTOMOTIVE METAVERSE 141

TABLE 78 METAVERSE TRAINING & SIMULATION MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION) 142 TABLE 79 METAVERSE TRAINING & SIMULATION MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION) 142

9.8 KEY PRIMARY INSIGHTS 142

10 METAVERSE MARKET FOR AUTOMOTIVE, BY REGION 143

10.1□INTRODUCTION□144

FIGURE 50∏ASIA PACIFIC TO GROW AT FAST RATE DURING FORECAST PERIOD∏144

TABLE 80∏METAVERSE MARKET FOR AUTOMOTIVE, BY REGION, 2018-2021 (USD MILLION)∏145

TABLE 81 METAVERSE MARKET FOR AUTOMOTIVE, BY REGION, 2022-2030 (USD MILLION) 145

10.2□ASIA PACIFIC□146

10.2.1∏ASIA PACIFIC: REGULATIONS∏146

FIGURE 51 ASIA PACIFIC: REGIONAL SNAPSHOT 147

TABLE 82□ASIA PACIFIC: METAVERSE MARKET FOR AUTOMOTIVE, BY COUNTRY, 2018-2021 (USD MILLION)□148 TABLE 83□ASIA PACIFIC: METAVERSE MARKET FOR AUTOMOTIVE, BY COUNTRY, 2022-2030 (USD MILLION)□148

TABLE 84□ASIA PACIFIC: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2018-2021 (USD MILLION)□148 TABLE 85□ASIA PACIFIC: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2022-2030 (USD MILLION)□149

10.2.2 CHINA 149

10.2.2.1 Government incentives present opportunities 149

TABLE 86 CHINA: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY 150

10.2.3 JAPAN 150

10.2.3.1 | Increasing OEM initiatives | 150

TABLE 87 JAPAN: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY 150

10.2.4 SOUTH KOREA 151

10.2.4.1 ☐ Thriving automotive OEM and metaverse provider partnerships ☐ 151 TABLE 88 ☐ SOUTH KOREA: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY ☐ 151

10.2.5 REST OF ASIA PACIFIC 151

TABLE 89 REST OF ASIA PACIFIC: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY 152

10.3[EUROPE[]152

10.3.1□EUROPE: REGULATIONS□152

TABLE 90 EUROPE: METAVERSE MARKET FOR AUTOMOTIVE, BY COUNTRY, 2018-2021 (USD MILLION) 153 TABLE 91 EUROPE: METAVERSE MARKET FOR AUTOMOTIVE, BY COUNTRY, 2022-2030 (USD MILLION) 153 TABLE 92 EUROPE: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2018-2021 (USD MILLION) 154 TABLE 93 EUROPE: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2022-2030 (USD MILLION) 154

10.3.2 UK 154

10.3.2.1 Large-scale metaverse adoption by OEMs 154

TABLE 94 UK: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY 154

10.3.3 GERMANY 155

10.3.3.1 Success of BMW meta factories and NFT-based transactions 155

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

TABLE 95 GERMANY: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY 155

10.3.4 REST OF EUROPE 155

TABLE 96 REST OF EUROPE: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY 156

10.4 NORTH AMERICA 156

10.4.1 NORTH AMERICA: REGULATIONS 157

FIGURE 52 NORTH AMERICA: REGIONAL SNAPSHOT 157

TABLE 97 NORTH AMERICA: METAVERSE MARKET FOR AUTOMOTIVE, BY COUNTRY, 2018-2021 (USD MILLION) 158
TABLE 98 NORTH AMERICA: METAVERSE MARKET FOR AUTOMOTIVE, BY COUNTRY, 2022-2030 (USD MILLION) 158
TABLE 99 NORTH AMERICA: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2018-2021 (USD MILLION) 158
TABLE 100 NORTH AMERICA: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2022-2030 (USD MILLION) 158

10.4.2 US 159

10.4.2.1 Presence of top metaverse providers and high penetration of 5G 159

TABLE 101∏US: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY∏159

10.4.3 | CANADA | 160

10.4.3.1 Presence of innovative startups 160

TABLE 102 CANADA: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY 160

10.5 MIDDLE EAST & AFRICA 160

TABLE 103∏MIDDLE EAST & AFRICA: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY∏160

10.5.1 MIDDLE EAST & AFRICA: REGULATIONS 161

TABLE 104 MIDDLE EAST & AFRICA: METAVERSE MARKET FOR AUTOMOTIVE, 2018-2021 (USD MILLION) 161 TABLE 105 MIDDLE EAST & AFRICA: METAVERSE MARKET FOR AUTOMOTIVE, 2022-2030 (USD MILLION) 161

TABLE 106 MIDDLE EAST & AFRICA: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2018-2021 (USD MILLION) 162 TABLE 107 MIDDLE EAST & AFRICA: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2022-2030 (USD MILLION) 162?

10.6 LATIN AMERICA 162

TABLE 108 LATIN AMERICA: METAVERSE PROGRESS IN AUTOMOTIVE INDUSTRY 162

10.6.1 □ LATIN AMERICA: REGULATIONS □ 163

TABLE 109 LATIN AMERICA: METAVERSE MARKET FOR AUTOMOTIVE, 2018-2021 (USD MILLION) 163 TABLE 110 LATIN AMERICA: METAVERSE MARKET FOR AUTOMOTIVE, 2022-2030 (USD MILLION) 163

TABLE 111 LATIN AMERICA: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2018-2021 (USD MILLION) 163 TABLE 112 LATIN AMERICA: METAVERSE MARKET FOR AUTOMOTIVE, BY PRODUCT, 2022-2030 (USD MILLION) 164

11 COMPETITIVE LANDSCAPE 165

 $11.1 \square OVERVIEW \square 165$

11.2 MARKET RANKING ANALYSIS 165

FIGURE 53∏MARKET RANKING OF MAJOR PLAYERS IN METAVERSE MARKET FOR AUTOMOTIVE, 2021∏165

11.3□COMPETITIVE SCENARIO□167

11.3.1 DEALS, 2019-2022 167

TABLE 113 DEALS, 2019-2022 167

11.3.2 PRODUCT LAUNCHES, 2019-2022 168

TABLE 114 NEW PRODUCT LAUNCHES, 2019-2022 168

11.4 COMPANY EVALUATION QUADRANT FOR METAVERSE MARKET FOR AUTOMOTIVE 169

11.4.1 STARS 169

11.4.2∏EMERGING LEADERS∏169

11.4.3 PERVASIVE COMPANIES 170

11.4.4 PARTICIPANTS 170

FIGURE 54 COMPANY EVALUATION QUADRANT FOR HARDWARE AND SOFTWARE PROVIDERS, 2021 170

FIGURE 55 COMPANY EVALUATION QUADRANT FOR OEMS, 2021 171

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

11.5 COMPANY EVALUATION FOOTPRINT 172

TABLE 115 METAVERSE MARKET FOR AUTOMOTIVE: COMPANY FOOTPRINT, 2021 172

TABLE 116 METAVERSE MARKET FOR AUTOMOTIVE: APPLICATION FOOTPRINT, 2021 172

TABLE 117 METAVERSE MARKET FOR AUTOMOTIVE: REGIONAL FOOTPRINT, 2021 173

11.6 COMPETITIVE EVALUATION QUADRANT, START-UPS AND SMES 173

11.6.1 □ PROGRESSIVE COMPANIES □ 173

11.6.2 RESPONSIVE COMPANIES 173

11.6.3 DYNAMIC COMPANIES 173

11.6.4 STARTING BLOCKS 174

FIGURE 56 COMPETITIVE LEADERSHIP MAPPING FOR START-UPS AND SMES, 2021 174

TABLE 118 METAVERSE MARKET FOR AUTOMOTIVE: LIST OF KEY STARTUPS 175

?

12 COMPANY PROFILES 176

(Business overview, Products offered, Recent developments & MnM View)*

12.1 KEY PLAYERS 176

12.1.1 NVIDIA 176

TABLE 119 NVIDIA: BUSINESS OVERVIEW 176 FIGURE 57 NVIDIA: COMPANY SNAPSHOT 177

FIGURE 58 NVIDIA OMNIVERSE AND ITS APPLICATION 177

TABLE 120 NVIDIA: PRODUCTS OFFERED 178

TABLE 121 | NVIDIA: NEW PRODUCT DEVELOPMENTS | 178

TABLE 122□NVIDIA: DEALS□178
12.1.2□ROBLOX CORPORATION□180

TABLE 123 ROBLOX CORPORATION: BUSINESS OVERVIEW 180 FIGURE 59 ROBLOX CORPORATION: COMPANY SNAPSHOT 180 TABLE 124 ROBLOX CORPORATION: PRODUCTS OFFERD 181

TABLE 125 ROBLOX CORPORATION: DEALS 181

12.1.3 UNITY TECHNOLOGIES 183

TABLE 126 UNITY TECHNOLOGIES: BUSINESS OVERVIEW 183
FIGURE 60 UNITY TECHNOLOGIES: COMPANY SNAPSHOT 183

FIGURE 61 UNITY TECHNOLOGIES PARTNERSHIP WITH HYUNDAI 184

TABLE 127 UNITY TECHNOLOGIES: PRODUCTS OFFERED 184

TABLE 128 UNITY TECHNOLOGIES: NEW PRODUCT DEVELOPMENTS 184

TABLE 129 UNITY TECHNOLOGIES: DEALS 185

12.1.4 META PLATFORMS INC. 187

TABLE 130 META PLATFORMS INC: BUSINESS OVERVIEW 187
FIGURE 62 META PLATFORMS INC: COMPANY SNAPSHOT 188
TABLE 131 META PLATFORMS INC: PRODUCTS OFFERED 188

TABLE 132 META PLATFORMS INC: NEW PRODUCT DEVELOPMENTS 189

TABLE 133 META PLATFORMS INC: DEALS 190

12.1.5 WAYRAY 192

TABLE 134 WAYRAY: BUSINESS OVERVIEW 192
TABLE 135 WAYRAY: PRODUCTS OFFERED 192

TABLE 136 WAYRAY: NEW PRODUCT DEVELOPMENTS 192

TABLE 137 WAYRAY: DEALS 193

12.1.6 EPIC GAMES 194

TABLE 138 EPIC GAMES: BUSINESS OVERVIEW 194

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

FIGURE 63 EPIC GAMES METAVERSE 194

TABLE 139 EPIC GAMES: PRODUCTS OFFERED 195

TABLE 140 EPIC GAMES: NEW PRODUCT DEVELOPMENTS 195

TABLE 141 EPIC GAMES: DEALS 196

12.1.7 TECH MAHINDRA 197

TABLE 142 TECH MAHINDRA: BUSINESS OVERVIEW 197
FIGURE 64 TECH MAHINDRA: COMPANY SNAPSHOT 198
TABLE 143 TECH MAHINDRA: PRODUCTS OFFERED 198

TABLE 144 | TECH MAHINDRA: NEW PRODUCT DEVELOPMENTS | 198

TABLE 145 TECH MAHINDRA: DEALS 199
TABLE 146 TECH MAHINDRA: OTHERS 199

12.1.8 | MICROSOFT | 200

TABLE 147 MICROSOFT: BUSINESS OVERVIEW 200
FIGURE 65 MICROSOFT: COMPANY SNAPSHOT 201
FIGURE 66 MICROSOFT HOLOLENS 2 MR DEVICE 202
TABLE 148 MICROSOFT: PRODUCTS OFFERED 203

TABLE 149∏MICROSOFT: NEW PRODUCT DEVELOPMENTS∏203

TABLE 150 MICROSOFT: DEALS 204
TABLE 151 MICROSOFT: OTHERS 204

12.1.9 XR LABS 205

TABLE 152[]XR LABS: BUSINESS OVERVIEW[]205 TABLE 153[]XR LABS: PRODUCTS OFFERED[]205

TABLE 154 XR LABS: DEALS 206

12.1.10 QUALCOMM 207

TABLE 155\[\text{QUALCOMM}\): BUSINESS OVERVIEW\[\text{Q207}\]
FIGURE 67\[\text{QUALCOMM}\): COMPANY SNAPSHOT\[\text{Q208}\]
FIGURE 68\[\text{QUALCOMM}\] X2 CHIP FOR AR/VR DEVICES\[\text{Q208}\]

TABLE 156 QUALCOMM: PRODUCTS OFFERED 209

TABLE 157 QUALCOMM: NEW PRODUCT DEVELOPMENTS 209

TABLE 158 \square QUALCOMM: DEALS \square 210

12.1.11 DECENTRALAND 211

TABLE 159□DECENTRALAND: BUSINESS OVERVIEW□211
TABLE 160□DECENTRALAND: PRODUCTS OFFERED□211

TABLE 161 DECENTRALAND: DEALS 211

12.1.12∏SANDBOX∏212

TABLE 162 SANDBOX: BUSINESS OVERVIEW 212
TABLE 163 SANDBOX: PRODUCTS OFFERED 212

TABLE 164 SANDBOX: NEW PRODUCT DEVELOPMENTS 212

TABLE 165 \square SANDBOX: DEALS \square 213 12.2 \square AUTOMOTIVE OEMS \square 214

12.2.1 HYUNDAI MOTOR COMPANY 214

TABLE 166 HYUNDAI MOTOR COMPANY: BUSINESS OVERVIEW 214 FIGURE 69 HYUNDAI MOTOR COMPANY: COMPANY SNAPSHOT 214 TABLE 167 HYUNDAI MOTOR COMPANY: PRODUCTS OFFERED 215

TABLE 168 HYUNDAI MOTOR COMPANY: NEW PRODUCT DEVELOPMENTS 215

TABLE 169 HYUNDAI MOTOR COMPANY: DEALS 215
TABLE 170 HYUNDAI MOTOR COMPANY: OTHERS 216

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

12.2.2 VOLKSWAGEN AG 217

TABLE 171 VOLKSWAGEN AG: BUSINESS OVERVIEW 217 FIGURE 70 VOLKSWAGEN AG: COMPANY SNAPSHOT 218 TABLE 172 VOLKSWAGEN AG: PRODUCTS OFFERED 218

TABLE 173 VOLKSWAGEN AG: NEW PRODUCT DEVELOPMENTS 219

TABLE 174 VOLKSWAGEN: DEALS 219
TABLE 175 VOLKSWAGEN: OTHERS 219

12.2.3 BMW GROUP 220

TABLE 176 BMW GROUP: BUSINESS OVERVIEWS 220 FIGURE 71 BMW GROUP: COMPANY SNAPSHOT 220

FIGURE 72∏BMW GROUP VIRTUAL CAR DESIGN USING OMNIVERSE∏221

TABLE 177 BMW GROUP: PRODUCTS OFFERED 221

TABLE 178 BMW GROUP: NEW PRODUCT DEVELOPMENTS 221

TABLE 179 BMW GROUP: DEALS 222 12.2.4 MERCEDES-BENZ AG 223

TABLE 180 MERCEDES-BENZ AG: BUSINESS OVERVIEW 223 FIGURE 73 MERCEDES-BENZ AG: COMPANY SNAPSHOT 223 FIGURE 74 MERCEDES-BENZ NFT ISSUED ITS G-CLASS 224 TABLE 181 MERCEDES-BENZ AG: PRODUCTS OFFERD 224

TABLE 182∏MERCEDES-BENZ AG: NEW PRODUCT DEVELOPMENTS□225

TABLE 183 MERCEDES-BENZ AG DEALS 225

12.2.5 NISSAN MOTORS 226

TABLE 184 NISSAN MOTORS: BUSINESS OVERVIEW 226 FIGURE 75 NISSAN MOTORS: COMPANY SNAPSHOT 226

FIGURE 76 NISSAN MOTORS 12V SYSTEM 227

TABLE 185 NISSAN MOTORS: PRODUCTS OFFERED 227

TABLE 186 NISSAN MOTORS: DEALS 227

*Details on Business overview, Products offered, Recent developments & MnM View might not be captured in case of unlisted companies.

12.3∏OTHER KEY PLAYERS∏228

12.3.1 VOLVO 228

12.3.2 GENERAL MOTORS □228

12.3.3 ☐ ASTON MARTIN ☐ 229

12.3.4 MG MOTORS 229

12.3.5 HONDA MOTOR COMPANY 230

12.3.6 TOYOTA MOTOR CORPORATION 230

12.3.7 JIDU AUTO 231

12.3.8 TATA MOTORS 231

12.3.9[[VARJO][232

12.3.10 CARZSO 232

12.3.11 TERRANET AB 233

 $12.3.12 \verb|| CARCIVIC \verb||| 233$

12.3.13 SOMNIUM SPACE 234

12.3.14 | METAVRSE | 234

12.3.15 SONY CORPORATION 235

 $12.3.16 \verb||OXBOTICA|| 235$

12.3.17 HYPERLINK INFOSYSTEM 236

Scotts International, EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 12.3.18 HOLORIDE 236
- 12.3.19 HOLO-LIGHT 237
- $12.3.20 \verb||INFINITEWORLD||| 237$
- 12.3.21 UPLAND 238
- 13 RECOMMENDATIONS BY MARKETSANDMARKETS 239
- 13.1 | ADVANCEMENTS IN XR TECHNOLOGIES TO DRIVE METAVERSE ADOPTION IN AUTOMOTIVE | 239
- 13.2 ASIA PACIFIC EXPECTED TO BE FASTEST MARKET 239
- 13.3 CONCLUSION 239
- 14 APPENDIX 240
- 14.1 KEY INSIGHTS FROM INDUSTRY EXPERTS 240
- 14.2 DISCUSSION GUIDE 240
- 14.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL 243
- 14.4 CUSTOMIZATION OPTIONS 245
- 14.5 RELATED REPORTS 245
- 14.6 AUTHOR DETAILS 246

tel. 0048 603 394 346 e-mail: support@scotts-international.com www.scotts-international.com



To place an Order with Scotts International:

Scotts International. EU Vat number: PL 6772247784 tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

☐ - Print this form

Metaverse Market for Automotive by Products (Software, Hardware), Technology (Virtual Reality (VR), Augmented Reality (AR), Mixed Reality (MR), Non-fungible Token (NFT), Blockchain), Function, Application & Region - Global Forecast to 2030

Market Report | 2022-09-13 | 247 pages | MarketsandMarkets

Complete the re	levant blank fields and sign		
Send as a scann	ed email to support@scotts-internat	tional.com	
ORDER FORM:			
Select license	License		Price
	Single User		\$4950.00
	Multi User		\$6650.00
	Corporate License		\$8150.00
	Enterprise Site License		\$10000.00
		VAT	
		Tota	
		ase contact support@scotts-international.com or 0048 603 3 duals and EU based companies who are unable to provide a	
Email*		Phone*	
First Name*		Last Name*	
Job title*			
Company Name*		EU Vat / Tax ID / NIP number*	
Address*		City*	
Zip Code*		Country*	

Date	2025-06-24	
Signature		

tel. 0048 603 394 346 e-mail: support@scotts-international.com www.scotts-international.com