

Traffic Management Market by Component, System (Urban Traffic Management, Adaptive Traffic Control, Journey Time Management, Predictive Traffic Modeling, Incident Detection & Location, and Dynamic Traffic Management), & Region - Global Forecast to 2027

Market Report | 2022-09-14 | 306 pages | MarketsandMarkets

AVAILABLE LICENSES:

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

Report description:

MarketsandMarkets forecasts the global traffic management market size is projected to grow from USD 38.2 billion in 2022 to USD 68.8 billion by 2027, at a compound annual growth rate (CAGR) of 12.5% during the forecast period. As the population grows and moves to urban centers, more people utilize the road and transport network resulting in growing congestion and more frequent accidents. The need for information using traffic management systems to improve the quality and performance of road services and provide accurate real-time data from multiple sources will drive the market.

The increasing migration of people from rural areas to urban areas has increased exponentially in urban households owning cars. Combining this with the existing traffic infrastructures that cannot keep up with rapid growth is the main reason for traffic congestion. Road transport is responsible for about 16% of manmade CO2 emissions. Road transportation is the biggest emitter of all Green House Gas (GHG) emissions, accounting for more than 70% of total Green House Gas (GHG) emissions since 2014. The total number of cars and commercial vehicles on the road will nearly double by 2040. All these factors are driving government agencies, regulatory bodies, and technology providers to find solutions for better traffic management across cities.

The traffic management system enables users to plan their journey in advance, find the shortest route in a real-time situation, provide help on-demand during the journey, and reduce their carbon footprint. Capital investments by governments in megaprojects, such as smart cities and smart transport infrastructures, have gradually become slow-paced, hindering the development of the transportation sector. The costs involved in the transformation of legacy systems are considerably high. The lack of participation from the private sector has made an impact on the current development projects.

"The vehicle detection boards are projected to account for the largest share among display boards during the forecast period."

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

In the traffic management market, by display board type, the vehicle detection board segment is expected to hold the largest market size. Display boards give clear traffic information messages to the drivers. These messages are easy to read and are important for drivers on fast, busy roads. Vehicle detection boards identify overweight vehicles moving toward overhead obstacles, such as bridges, tunnels, and other structures, and then warn the drivers individually. The need for systems with extensive capabilities, accuracy, and versatility of different detection types, such as speed, vehicle counts, vehicle classification, stopped vehicle detection, wrong-way vehicles, accident detection, and more typical traffic data, such as occupancy, the gap between vehicles, queue detection will drive the segment growth.

"The air quality sensors segment is estimated to grow at the highest CAGR during the forecast period."

In the traffic management market, by sensor type, the air quality sensors segment is estimated to record the highest CAGR during the forecast period. The air quality sensors are built into the infrastructure to measure weather data like rain intensity, humidity, air pressure and temperature as well as particulate matters (PM1.0, PM2.5, PM10) and harmful oxides such as carbon monoxide, nitrogen dioxide etc. Air quality sensors provide useful information about air pollution to take appropriate measures to mitigate the negative impact.

"The route guidance and route optimization segment is estimated to record the largest share among solutions during the forecast period."

In the traffic management market, by solution, the route guidance and route optimization segment is estimated to record the largest share during the forecast period. Route optimization helps users to determine the best and most cost-efficient route for their travel. The need for well-planned routes to help drivers spend less time driving, eventually reducing the fuel cost, will drive the market.

"Europe is projected to record the largest market share during the forecast period."

Europe is estimated to dominate the traffic management market and record the largest share during the forecast period. The European market has diverse business needs. Similar to North America, enterprises in this region have strong technical expertise and bigger IT budgets. In addition, there are many traffic management vendors in this region. Europe has a very conducive environment for implementing traffic management systems, as the government has planned investments to improve public transportation modes in this region.

Breakdown of primaries

The study contains insights from various industry experts, ranging from solution vendors to Tier 1 companies. The break-up of the primaries is as follows:

- By Company Type: Tier 1 - 45%, Tier 2 - 25%, and Tier 3 - 30%
- By Designation: C-level - 45%, Directors - 30%, and Others - 25%
- By Region: North America - 30%, Europe - 35%, Asia Pacific - 20%, RoW - 15%

The report covers the competitive landscape and profiles major market players Siemens (Germany), Huawei (China), IBM (US), Cisco (US), Kapsch TrafficCom (Austria), SWARCO (Austria), Q-Free (Norway), Thales Group (France), PTV Group (Germany), Teledyne FLIR (US), Cubic (US), TomTom (Netherlands), Alibaba Cloud (China), TransCore (US), Chevron TM (England), Indra (Spain), LG CNS (South Korea), INRIX (England), Notraffic (Israel), Sensys Networks (US), Citilog (France), Bercman Technologies (Estonia), Valerann (Israel), Miovision (Canada), BlueSignal (South Korea), Telegra (Croatia), Oriux (US), Invarion (US), and Rekor (US). These players have adopted several organic and inorganic growth strategies, including new product launches, partnerships and collaborations, and acquisitions, to expand their offerings and market shares in the traffic management market.

Research Coverage

The market study covers the traffic management market across different segments. It aims at estimating the market size and the growth potential of this market across different segments based on component (solutions, hardware, and services), system (urban traffic management and control, adaptive traffic control system, journey time management system, predictive traffic modeling

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

system, incident detection and location system, dynamic traffic management system) and region (North America, Europe, Asia Pacific, the Middle East & Africa, and Latin America). The study also includes an in-depth competitive analysis of the key market players, 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 is expected to help the market leaders/new entrants in this market by providing information on the closest approximations of the revenue numbers for the overall transportation management system market and its segments. This report is also expected to help stakeholders understand the competitive landscape and gain insights to improve the position of their businesses and plan suitable go-to-market strategies. The report also aims at helping stakeholders understand the pulse of the market and provide them with information on key market drivers, restraints, challenges, and opportunities.

Table of Contents:

1 INTRODUCTION 31

1.1 STUDY OBJECTIVES 31

1.2 MARKET DEFINITION 31

1.2.1 INCLUSIONS AND EXCLUSIONS 31

1.3 MARKET SCOPE 32

1.3.1 MARKET SEGMENTATION 32

1.3.2 REGIONS COVERED 33

1.3.3 YEARS CONSIDERED 33

1.4 CURRENCY CONSIDERED 34

TABLE 1 UNITED STATES DOLLAR EXCHANGE RATE, 2018-2021 34

1.5 STAKEHOLDERS 34

1.6 SUMMARY OF CHANGES 35

1.7 LIMITATIONS 35

2 RESEARCH METHODOLOGY 36

2.1 RESEARCH DATA 36

FIGURE 1 TRAFFIC MANAGEMENT MARKET: RESEARCH DESIGN 36

2.1.1 SECONDARY DATA 37

2.1.1.1 Key data from secondary sources 37

2.1.2 PRIMARY DATA 38

2.1.2.1 Primary interviews with experts 38

2.1.2.2 Breakup of primary interviews 38

2.1.2.3 List of key primary interview participants 39

TABLE 2 PRIMARY RESPONDENTS: TRAFFIC MANAGEMENT MARKET 39

2.1.2.4 Key industry insights 40

2.2 DATA TRIANGULATION 41

2.3 MARKET SIZE ESTIMATION 41

2.3.1 BOTTOM-UP APPROACH 41

FIGURE 2 BOTTOM-UP APPROACH 42

FIGURE 3 TRAFFIC MANAGEMENT MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH - SUPPLY-SIDE ANALYSIS 42

2.3.2 TOP-DOWN APPROACH 43

FIGURE 4 TOP-DOWN APPROACH 43

2.3.3 TRAFFIC MANAGEMENT MARKET ESTIMATION: DEMAND-SIDE ANALYSIS 44

FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1 (DEMAND SIDE): SHARE OF TRAFFIC MANAGEMENT MARKET THROUGH OVERALL IT SPENDING 44

2.3.4 TRAFFIC MANAGEMENT MARKET ESTIMATION: SUPPLY-SIDE ANALYSIS 45

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

FIGURE 6	MARKET REVENUE ESTIMATION METHODOLOGY: APPROACH 2 (SUPPLY SIDE): REVENUE OF SOLUTIONS/SERVICES IN TRAFFIC MANAGEMENT MARKET	45
2.4	ASSUMPTIONS	46
3	EXECUTIVE SUMMARY	47
FIGURE 7	TRAFFIC MANAGEMENT MARKET SIZE, 2020-2027	49
FIGURE 8	LARGEST SEGMENTS IN TRAFFIC MANAGEMENT MARKET, 2022	50
FIGURE 9	TRAFFIC MANAGEMENT MARKET, REGIONAL SHARES, 2022	50
FIGURE 10	ASIA PACIFIC TO EMERGE AS THE BEST MARKET FOR INVESTMENTS DURING 2022 - 2027	51
4	PREMIUM INSIGHTS	52
4.1	BRIEF OVERVIEW OF TRAFFIC MANAGEMENT MARKET	52
FIGURE 11	RIISING TRAFFIC CONGESTION AND RAPID URBANIZATION WORLDWIDE TO DRIVE TRAFFIC MANAGEMENT MARKET GROWTH	52
4.2	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY COMPONENT AND COUNTRY	52
FIGURE 12	SOLUTION SEGMENT AND UNITED STATES TO ACCOUNT FOR LARGE SHARES IN NORTH AMERICAN TRAFFIC MANAGEMENT MARKET IN 2022	52
4.3	ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SYSTEM AND COUNTRY	53
FIGURE 13	TMS SEGMENT AND CHINA TO ACCOUNT FOR LARGE SHARES IN ASIA PACIFIC TRAFFIC MANAGEMENT MARKET IN 2022	53
5	MARKET OVERVIEW	54
5.1	INTRODUCTION	54
5.2	MARKET DYNAMICS	54
FIGURE 14	DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES: TRAFFIC MANAGEMENT MARKET	54
5.2.1	DRIVERS	55
5.2.1.1	Rising demand for real-time traffic information to drivers and passengers	55
5.2.1.2	Increasing concerns related to public safety	55
5.2.1.3	Increasing urban population, rising number of vehicles, and inadequate infrastructure	55
FIGURE 15	URBAN WORLD POPULATION FORECAST	56
5.2.1.4	Government initiatives for effective traffic management	56
5.2.1.5	Development of smart cities worldwide	56
TABLE 3	TOP TEN SMART CITIES WORLDWIDE, 2021	57
5.2.2	RESTRAINTS	57
5.2.2.1	Slow growth in infrastructure sector	57
5.2.2.2	Lack of standardized and uniform technologies to streamline legacy infrastructure	57
5.2.3	OPPORTUNITIES	58
5.2.3.1	Increasing concerns about protecting environment with eco-friendly automobile technology	58
5.2.3.2	Designing and developing smart vehicles compatible with advanced technologies	58
5.2.3.3	Growth of analytics software	58
5.2.3.4	Evolving 5G to transform traffic management market	59
5.2.4	CHALLENGES	59
5.2.4.1	High expenses associated with equipment installation	59
5.2.4.2	Security threats and hacking challenges	60
5.2.4.3	Multiple sensors and touchpoints pose data fusion challenges	60
5.3	AVERAGE SELLING PRICE TREND	60
5.3.1	AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY SUBSCRIPTION-BASED SOFTWARE	61
TABLE 4	AVERAGE SELLING PRICE RANGES OF SUBSCRIPTION-BASED TRAFFIC MANAGEMENT SOFTWARE	61
5.4	SUPPLY/VALUE CHAIN ANALYSIS	61
FIGURE 16	TRAFFIC MANAGEMENT MARKET: VALUE CHAIN ANALYSIS	62

5.5	ECOSYSTEM	62
TABLE 5	TRAFFIC MANAGEMENT ECOSYSTEM	63
5.6	TECHNOLOGY ANALYSIS	64
5.6.1	BIG DATA AND ANALYTICS	64
5.6.2	ARTIFICIAL INTELLIGENCE	64
5.6.3	EDGE COMPUTING	65
5.6.4	INTERNET OF THINGS	65
5.6.5	5G	65
5.7	TRAFFIC DATA FLOW PROCESS	66
FIGURE 17	TRAFFIC MANAGEMENT MARKET: DATA FLOW PROCESS	66
5.8	PATENT ANALYSIS	66
FIGURE 18	TOP TEN COMPANIES WITH HIGHEST NUMBER OF PATENT APPLICATIONS	67
TABLE 6	TOP 20 PATENT OWNERS (US)	67
FIGURE 19	NUMBER OF PATENTS GRANTED YEARLY, 2012-2021	68
5.9	KEY CONFERENCES AND EVENTS DURING 2022-2023	68
TABLE 7	TRAFFIC MANAGEMENT MARKET: DETAILED LIST OF CONFERENCES AND EVENTS	68
5.10	REGULATORY LANDSCAPE	69
5.10.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	69
5.10.2	MANUAL ON TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS	69
5.10.3	INTERNATIONAL ORGANIZATION FOR STANDARDIZATION	69
5.10.3.1	ISO/IEC JTC 1	70
5.10.3.2	ISO/IEC 27001	70
5.10.3.3	ISO/IEC 19770	70
5.10.3.4	ISO/IEC JTC 1/SWG 5	70
5.10.3.5	ISO/IEC JTC 1/SC 31	70
5.10.3.6	ISO/IEC JTC 1/SC 27	70
5.10.3.7	ISO/IEC JTC 1/WG 7 SENSOR	70
5.10.4	GENERAL DATA PROTECTION REGULATION	71
5.10.5	FEDERAL MOTOR CARRIER SAFETY ADMINISTRATION	71
5.10.6	FEDERAL HIGHWAY ADMINISTRATION	71
5.10.7	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS	71
5.10.8	CEN/ISO	71
5.10.9	CEN/CENELEC	71
5.10.10	EUROPEAN TELECOMMUNICATIONS STANDARDS INSTITUTE	72
5.10.11	ITU-T	72
5.11	PORTER'S FIVE FORCES ANALYSIS	72
FIGURE 20	TRAFFIC MANAGEMENT MARKET: PORTER'S FIVE FORCES ANALYSIS	72
TABLE 8	IMPACT OF PORTER'S FIVE FORCES	73
5.11.1	THREAT OF NEW ENTRANTS	73
5.11.2	THREAT OF SUBSTITUTES	73
5.11.3	BARGAINING POWER OF BUYERS	73
5.11.4	BARGAINING POWER OF SUPPLIERS	74
5.11.5	COMPETITIVE RIVALRY	74
5.12	KEY STAKEHOLDERS AND BUYING CRITERIA	74
5.12.1	KEY STAKEHOLDERS IN BUYING PROCESS	74
FIGURE 21	INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR END USERS	74
TABLE 9	INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR END USERS	75

5.12.2 BUYING CRITERIA 75

FIGURE 22 KEY BUYING CRITERIA FOR TOP THREE END USERS 75

TABLE 10 KEY BUYING CRITERIA FOR END USERS 75

5.13 CASE STUDY ANALYSIS 76

5.13.1 CASE STUDY 1: SIEMENS HELPED LONDON CITY WITH TRAFFIC MANAGEMENT SOLUTION TO CREATE ULTRA LOW EMISSION ZONE 76

5.13.2 CASE STUDY 2: HUAWEI HELPED LAHORE CITY WITH TRAFFIC MANAGEMENT TO IMPROVE TRAFFIC CONDITIONS 77

5.13.3 CASE STUDY 3: SWARCO AND AITEK HELPED RIYADH WITH TRAFFIC MANAGEMENT 77

5.13.4 CASE STUDY 4: TRANSORE DEPLOYED INTELLIGENT TRAFFIC SYSTEM IN NEW YORK CITY 78

5.13.5 CASE STUDY 5: TOMTOM HELPED HELSINKI STUDY TRAFFIC FLOW 79

6 TRAFFIC MANAGEMENT MARKET, BY COMPONENT 80

6.1 INTRODUCTION 81

6.1.1 COMPONENT: TRAFFIC MANAGEMENT MARKET DRIVERS 81

FIGURE 23 SOLUTIONS SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD 81

TABLE 11 TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2017-2021 (USD MILLION) 82

TABLE 12 TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2022-2027 (USD MILLION) 82

TABLE 13 COMPONENT: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION) 82

TABLE 14 COMPONENT: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION) 83

6.2 HARDWARE 83

FIGURE 24 SURVEILLANCE CAMERAS SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD 83

TABLE 15 TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2017-2021 (USD MILLION) 84

TABLE 16 TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2022-2027 (USD MILLION) 84

TABLE 17 HARDWARE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION) 84

TABLE 18 HARDWARE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION) 85

6.2.1 DISPLAY BOARDS 85

FIGURE 25 VEHICLE DETECTION BOARDS SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD 85

TABLE 19 DISPLAY BOARDS: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2017-2021 (USD MILLION) 86

TABLE 20 DISPLAY BOARDS: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2022-2027 (USD MILLION) 86

TABLE 21 DISPLAY BOARDS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION) 86

TABLE 22 DISPLAY BOARDS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION) 87

6.2.1.1 Multifunctional boards 87

TABLE 23 MULTIFUNCTIONAL BOARDS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION) 87

TABLE 24 MULTIFUNCTIONAL BOARDS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION) 88

6.2.1.2 Vehicle detection boards 88

TABLE 25 VEHICLE DETECTION BOARDS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION) 88

TABLE 26 VEHICLE DETECTION BOARDS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION) 89

6.2.1.3 Communication boards 89

TABLE 27 COMMUNICATION BOARDS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION) 89

TABLE 28 COMMUNICATION BOARDS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION) 90

6.2.2 SENSORS 90

FIGURE 26 SPEED SENSORS SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD 90

TABLE 29 SENSORS: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2017-2021 (USD MILLION) 91

TABLE 30 SENSORS: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2022-2027 (USD MILLION) 91

TABLE 31 SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION) 91

TABLE 32 SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION) 92

6.2.2.1 Vehicle detection sensors 92

TABLE 33 VEHICLE DETECTION SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION) 92

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

TABLE 34	VEHICLE DETECTION SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	93
6.2.2.2	Pedestrian presence sensors	93
TABLE 35	PEDESTRIAN PRESENCE SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	93
TABLE 36	PEDESTRIAN PRESENCE SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	94
6.2.2.3	Speed sensors	94
TABLE 37	SPEED SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	94
TABLE 38	SPEED SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	95
6.2.2.4	Air quality sensors	95
TABLE 39	AIR QUALITY SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	95
TABLE 40	AIR QUALITY SENSORS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	96
6.2.3	SURVEILLANCE CAMERAS	96
FIGURE 27	IP CAMERAS SEGMENT TO ACCOUNT FOR LARGER MARKET SIZE DURING FORECAST PERIOD	96
TABLE 41	SURVEILLANCE CAMERAS: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2017-2021 (USD MILLION)	97
TABLE 42	SURVEILLANCE CAMERAS: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2022-2027 (USD MILLION)	97
TABLE 43	SURVEILLANCE CAMERAS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	97
TABLE 44	SURVEILLANCE CAMERAS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	98
6.2.3.1	Internet protocol cameras	98
TABLE 45	INTERNET PROTOCOL CAMERAS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	98
TABLE 46	INTERNET PROTOCOL CAMERAS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	99
6.2.3.2	Analog cameras	99
TABLE 47	ANALOG CAMERAS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	99
TABLE 48	ANALOG CAMERAS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	100
6.2.4	OTHER HARDWARE	100
TABLE 49	OTHER HARDWARE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	100
TABLE 50	OTHER HARDWARE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	101
6.3	SOLUTIONS	101
FIGURE 28	ROUTE GUIDANCE & ROUTE OPTIMIZATION SEGMENT TO ACCOUNT FOR HIGHEST CAGR DURING FORECAST PERIOD	101
TABLE 51	TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2017-2021 (USD MILLION)	102
TABLE 52	TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2022-2027 (USD MILLION)	102
TABLE 53	SOLUTIONS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	102
TABLE 54	SOLUTIONS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	103
6.3.1	SMART SIGNALING	103
TABLE 55	SMART SIGNALING: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021(USD MILLION)	103
TABLE 56	SMART SIGNALING: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	104
6.3.2	ROUTE GUIDANCE & ROUTE OPTIMIZATION	104
TABLE 57	ROUTE GUIDANCE & ROUTE OPTIMIZATION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	104
TABLE 58	ROUTE GUIDANCE & ROUTE OPTIMIZATION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	105
6.3.3	TRAFFIC ANALYTICS	105
TABLE 59	TRAFFIC ANALYTICS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	105
TABLE 60	TRAFFIC ANALYTICS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	106
6.3.4	SMART SURVEILLANCE	106
TABLE 61	SMART SURVEILLANCE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	106
TABLE 62	SMART SURVEILLANCE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	107
FIGURE 29	VIDEO ANALYTICS SEGMENT TO ACCOUNT FOR HIGHER CAGR DURING FORECAST PERIOD	107
TABLE 63	SMART SURVEILLANCE: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2017-2021 (USD MILLION)	107
TABLE 64	SMART SURVEILLANCE: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2022-2027 (USD MILLION)	108
6.3.4.1	Video management software	108

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

TABLE 65	VIDEO MANAGEMENT SOFTWARE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	108
TABLE 66	VIDEO MANAGEMENT SOFTWARE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	108
6.3.4.2	Video analytics	109
TABLE 67	VIDEO ANALYTICS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	109
TABLE 68	VIDEO ANALYTICS: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	109
6.3.4.2.1	Video analytics, by application	110
FIGURE 30	VIDEO ANALYTICS APPLICATIONS	110
FIGURE 31	AUTOMATIC NUMBER PLATE RECOGNITION SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD	110
TABLE 69	VIDEO ANALYTICS: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2017-2021 (USD MILLION)	111
TABLE 70	VIDEO ANALYTICS: TRAFFIC MANAGEMENT MARKET, BY TYPE, 2022-2027 (USD MILLION)	111
6.3.4.2.1.1	Automatic Number Plate Recognition (ANPR)	111
TABLE 71	AUTOMATIC NUMBER PLATE RECOGNITION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	112
TABLE 72	AUTOMATIC NUMBER PLATE RECOGNITION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	112
6.3.4.2.1.2	Facial recognition	112
TABLE 73	FACIAL RECOGNITION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	113
TABLE 74	FACIAL RECOGNITION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	113
6.3.4.2.1.3	Pedestrian detection	113
TABLE 75	PEDESTRIAN DETECTION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	114
TABLE 76	PEDESTRIAN DETECTION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	114
6.3.4.2.1.4	Incident detection	114
TABLE 77	INCIDENT DETECTION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	115
TABLE 78	INCIDENT DETECTION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	115
6.4	SERVICES	115
FIGURE 32	IMPLEMENTATION SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD	116
TABLE 79	TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2017-2021 (USD MILLION)	116
TABLE 80	TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2022-2027 (USD MILLION)	116
TABLE 81	SERVICES: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	117
TABLE 82	SERVICES: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	117
6.4.1	CONSULTING	117
TABLE 83	CONSULTING: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	118
TABLE 84	CONSULTING: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	118
6.4.2	IMPLEMENTATION	118
TABLE 85	IMPLEMENTATION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	119
TABLE 86	IMPLEMENTATION: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	119
6.4.3	SUPPORT & MAINTENANCE	119
TABLE 87	SUPPORT & MAINTENANCE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	120
TABLE 88	SUPPORT & MAINTENANCE: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	120
7	TRAFFIC MANAGEMENT MARKET, BY SYSTEM	121
7.1	INTRODUCTION	122
7.1.1	SYSTEM: TRAFFIC MANAGEMENT MARKET DRIVERS	122
FIGURE 33	INCIDENT DETECTION & LOCATION SEGMENT TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD	123
TABLE 89	TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2017-2021 (USD MILLION)	123
TABLE 90	TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2022-2027 (USD MILLION)	123
7.2	URBAN TRAFFIC MANAGEMENT & CONTROL	124
FIGURE 34	URBAN TRAFFIC MANAGEMENT & CONTROL SYSTEM	125
TABLE 91	URBAN TRAFFIC MANAGEMENT & CONTROL: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	125

TABLE 92	URBAN TRAFFIC MANAGEMENT & CONTROL: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	126
7.3	ADAPTIVE TRAFFIC CONTROL SYSTEM	126
FIGURE 35	ADAPTIVE TRAFFIC CONTROL SYSTEM	126
TABLE 93	ADAPTIVE TRAFFIC CONTROL SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	127
TABLE 94	ADAPTIVE TRAFFIC CONTROL SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	127
7.4	JOURNEY TIME MANAGEMENT SYSTEM	127
FIGURE 36	STRUCTURE OF JOURNEY TIME MEASUREMENT SYSTEM	128
TABLE 95	JOURNEY TIME MEASUREMENT SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	128
TABLE 96	JOURNEY TIME MEASUREMENT SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	128
7.5	PREDICTIVE TRAFFIC MODELING SYSTEM	129
TABLE 97	PREDICTIVE TRAFFIC MODELING SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	129
TABLE 98	PREDICTIVE TRAFFIC MODELING SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	130
7.6	INCIDENT DETECTION & LOCATION SYSTEM	130
TABLE 99	INCIDENT DETECTION & LOCATION SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	130
TABLE 100	INCIDENT DETECTION & LOCATION SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	131
7.7	DYNAMIC TRAFFIC MANAGEMENT SYSTEM	131
TABLE 101	DYNAMIC TRAFFIC MANAGEMENT SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	131
TABLE 102	DYNAMIC TRAFFIC MANAGEMENT SYSTEM: TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	132
8	TRAFFIC MANAGEMENT MARKET, BY REGION	133
8.1	INTRODUCTION	134
FIGURE 37	EUROPE TO ACCOUNT FOR LARGEST MARKET SIZE DURING FORECAST PERIOD	134
TABLE 103	TRAFFIC MANAGEMENT MARKET, BY REGION, 2017-2021 (USD MILLION)	135
TABLE 104	TRAFFIC MANAGEMENT MARKET, BY REGION, 2022-2027 (USD MILLION)	135
8.2	NORTH AMERICA	135
8.2.1	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET DRIVERS	136
8.2.2	NORTH AMERICA: TRAFFIC MANAGEMENT REGULATIONS	136
8.2.3	PESTLE ANALYSIS: NORTH AMERICA	137
TABLE 105	TRAFFIC SCORECARD 2021: NORTH AMERICA	138
TABLE 106	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2017-2021 (USD MILLION)	139
TABLE 107	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2022-2027 (USD MILLION)	139
TABLE 108	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2017-2021 (USD MILLION)	139
TABLE 109	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2022-2027 (USD MILLION)	140
TABLE 110	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2017-2021 (USD MILLION)	140
TABLE 111	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2022-2027 (USD MILLION)	140
TABLE 112	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2017-2021 (USD MILLION)	140
TABLE 113	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2022-2027 (USD MILLION)	141
TABLE 114	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2017-2021 (USD MILLION)	141
TABLE 115	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2022-2027 (USD MILLION)	141
TABLE 116	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2017-2021 (USD MILLION)	142
TABLE 117	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2022-2027 (USD MILLION)	142
TABLE 118	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2017-2021 (USD MILLION)	142
TABLE 119	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2022-2027 (USD MILLION)	142
TABLE 120	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2017-2021 (USD MILLION)	143
TABLE 121	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2022-2027 (USD MILLION)	143
TABLE 122	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2017-2021 (USD MILLION)	143
TABLE 123	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2022-2027 (USD MILLION)	144

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

TABLE 124	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2017-2021 (USD MILLION)	144
TABLE 125	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2022-2027 (USD MILLION)	144
TABLE 126	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY COUNTRY, 2017-2021 (USD MILLION)	145
TABLE 127	NORTH AMERICA: TRAFFIC MANAGEMENT MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	145
8.2.4	US	145
8.2.4.1	Major initiatives by government to drive market	145
8.2.5	CANADA	146
8.2.5.1	Development of smart cities to drive market	146
8.3	EUROPE	146
8.3.1	EUROPE: TRAFFIC MANAGEMENT MARKET DRIVERS	147
8.3.2	EUROPE: TRAFFIC MANAGEMENT REGULATIONS	147
8.3.3	PESTLE ANALYSIS: EUROPE	147
TABLE 128	TRAFFIC SCORECARD, 2021: EUROPE	149
FIGURE 38	EUROPE: MARKET SNAPSHOT	150
TABLE 129	EUROPE: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2017-2021 (USD MILLION)	150
TABLE 130	EUROPE: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2022-2027 (USD MILLION)	151
TABLE 131	EUROPE: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2017-2021 (USD MILLION)	151
TABLE 132	EUROPE: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2022-2027 (USD MILLION)	151
TABLE 133	EUROPE: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2017-2021 (USD MILLION)	152
TABLE 134	EUROPE: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2022-2027 (USD MILLION)	152
TABLE 135	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2017-2021 (USD MILLION)	152
TABLE 136	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2022-2027 (USD MILLION)	152
TABLE 137	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2017-2021 (USD MILLION)	153
TABLE 138	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2022-2027 (USD MILLION)	153
TABLE 139	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2017-2021 (USD MILLION)	153
TABLE 140	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2022-2027 (USD MILLION)	154
TABLE 141	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2017-2021 (USD MILLION)	154
TABLE 142	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2022-2027 (USD MILLION)	154
TABLE 143	EUROPE: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2017-2021 (USD MILLION)	154
TABLE 144	EUROPE: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2022-2027 (USD MILLION)	155
TABLE 145	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2017-2021 (USD MILLION)	155
TABLE 146	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2022-2027 (USD MILLION)	155
TABLE 147	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2017-2021 (USD MILLION)	156
TABLE 148	EUROPE: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2022-2027 (USD MILLION)	156
TABLE 149	EUROPE: TRAFFIC MANAGEMENT MARKET, BY COUNTRY, 2017-2021 (USD MILLION)	156
TABLE 150	EUROPE: TRAFFIC MANAGEMENT MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	157
8.3.4	UK	157
8.3.4.1	Government initiatives supported by collaborations and partnerships to drive market	157
8.3.5	GERMANY	157
8.3.5.1	Government initiatives supported by private collaborations and partnerships to drive market	157
8.3.6	FRANCE	158
8.3.6.1	Advancements in robotics and IoT to drive market	158
8.3.7	REST OF EUROPE	158
8.4	ASIA PACIFIC	158
8.4.1	ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET DRIVERS	159
8.4.2	ASIA PACIFIC: TRAFFIC MANAGEMENT REGULATIONS	159
8.4.3	PESTLE ANALYSIS: ASIA PACIFIC	160

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

FIGURE 39 ASIA PACIFIC: MARKET SNAPSHOT 161

TABLE 151 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2017-2021 (USD MILLION) 162

TABLE 152 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2022-2027 (USD MILLION) 162

TABLE 153 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2017-2021 (USD MILLION) 162

TABLE 154 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2022-2027 (USD MILLION) 163

TABLE 155 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2017-2021 (USD MILLION) 163

TABLE 156 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2022-2027 (USD MILLION) 163

TABLE 157 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2017-2021 (USD MILLION) 163

TABLE 158 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2022-2027 (USD MILLION) 164

TABLE 159 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2017-2021 (USD MILLION) 164

TABLE 160 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2022-2027 (USD MILLION) 164

TABLE 161 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2017-2021 (USD MILLION) 165

TABLE 162 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2022-2027 (USD MILLION) 165

TABLE 163 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2017-2021 (USD MILLION) 165

TABLE 164 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2022-2027 (USD MILLION) 165

TABLE 165 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2017-2021 (USD MILLION) 166

TABLE 166 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2022-2027 (USD MILLION) 166

TABLE 167 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2017-2021 (USD MILLION) 166

TABLE 168 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2022-2027 (USD MILLION) 167

TABLE 169 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2017-2021 (USD MILLION) 167

TABLE 170 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2022-2027 (USD MILLION) 167

TABLE 171 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY COUNTRY, 2017-2021 (USD MILLION) 168

TABLE 172 ASIA PACIFIC: TRAFFIC MANAGEMENT MARKET, BY COUNTRY, 2022-2027 (USD MILLION) 168

8.4.4 AUSTRALIA AND NEW ZEALAND 168

8.4.4.1 Increasing adoption of latest technologies to drive market 168

8.4.5 CHINA 169

8.4.5.1 Need to overcome traffic congestion to drive market 169

TABLE 173 CHINA: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2017-2021 (USD MILLION) 169

TABLE 174 CHINA: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2022-2027 (USD MILLION) 169

TABLE 175 CHINA: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2017-2021 (USD MILLION) 170

TABLE 176 CHINA: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2022-2027 (USD MILLION) 170

TABLE 177 CHINA: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2017-2021 (USD MILLION) 170

TABLE 178 CHINA: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2022-2027 (USD MILLION) 171

TABLE 179 CHINA: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2017-2021 (USD MILLION) 171

TABLE 180 CHINA: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2022-2027 (USD MILLION) 171

TABLE 181 CHINA: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2017-2021 (USD MILLION) 171

TABLE 182 CHINA: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2022-2027 (USD MILLION) 172

TABLE 183 CHINA: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2017-2021 (USD MILLION) 172

TABLE 184 CHINA: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2022-2027 (USD MILLION) 172

TABLE 185 CHINA: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2017-2021 (USD MILLION) 173

TABLE 186 CHINA: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2022-2027 (USD MILLION) 173

TABLE 187 CHINA: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2017-2021 (USD MILLION) 173

TABLE 188 CHINA: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2022-2027 (USD MILLION) 174

TABLE 189 CHINA: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2017-2021 (USD MILLION) 174

TABLE 190 CHINA: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2022-2027 (USD MILLION) 174

TABLE 191 CHINA: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2017-2021 (USD MILLION) 175

TABLE 192 CHINA: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2022-2027 (USD MILLION) 175

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

8.4.6	JAPAN	175
8.4.6.1	Digital transformation across country to drive market	175
8.4.7	SINGAPORE	176
8.4.7.1	Increasing investments in Singapore for network extensions to drive market	176
8.4.8	REST OF ASIA PACIFIC	176
8.5	MIDDLE EAST & AFRICA	176
8.5.1	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET DRIVERS	177
8.5.2	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT REGULATIONS	177
8.5.3	PESTLE ANALYSIS: MIDDLE EAST & AFRICA	177
TABLE 193	TRAFFIC SCORECARD, 2021: MIDDLE EAST & AFRICA	179
TABLE 194	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2017-2021 (USD MILLION)	179
TABLE 195	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY COMPONENT, 2022-2027 (USD MILLION)	179
TABLE 196	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2017-2021 (USD MILLION)	180
TABLE 197	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY HARDWARE, 2022-2027 (USD MILLION)	180
TABLE 198	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2017-2021 (USD MILLION)	180
TABLE 199	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY DISPLAY BOARD TYPE, 2022-2027 (USD MILLION)	181
TABLE 200	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2017-2021 (USD MILLION)	181
TABLE 201	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SURVEILLANCE CAMERA, 2022-2027 (USD MILLION)	181
TABLE 202	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2017-2021 (USD MILLION)	181
TABLE 203	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SENSOR, 2022-2027 (USD MILLION)	182
TABLE 204	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2017-2021 (USD MILLION)	182
TABLE 205	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SOLUTION, 2022-2027 (USD MILLION)	182
TABLE 206	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2017-2021 (USD MILLION)	183
TABLE 207	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SMART SURVEILLANCE, 2022-2027 (USD MILLION)	183
TABLE 208	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2017-2021 (USD MILLION)	183
TABLE 209	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY VIDEO ANALYTICS, 2022-2027 (USD MILLION)	183
TABLE 210	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2017-2021 (USD MILLION)	184
TABLE 211	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SERVICE, 2022-2027 (USD MILLION)	184
TABLE 212	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2017-2021 (USD MILLION)	184
TABLE 213	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY SYSTEM, 2022-2027 (USD MILLION)	185
TABLE 214	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY COUNTRY, 2017-2021 (USD MILLION)	185
TABLE 215	MIDDLE EAST & AFRICA: TRAFFIC MANAGEMENT MARKET, BY COUNTRY, 2022-2027 (USD MILLION)	185
8.5.4	ISRAEL	186
8.5.4.1	Major investments for better transport infrastructure to drive market	186
8.5.5	QATAR	186
8.5.5.1	Increasing traffic management projects to drive market	186
8.5.6	UAE	186
8.5.6.1	Advancements in technology to drive market	186
8.5.7	SOUTH AFRICA	187
8.5.7.1	Adoption of IoT and cloud technologies to drive market	187
8.5.8	REST OF MIDDLE EAST & AFRICA	187

Traffic Management Market by Component, System (Urban Traffic Management, Adaptive Traffic Control, Journey Time Management, Predictive Traffic Modeling, Incident Detection & Location, and Dynamic Traffic Management), & Region - Global Forecast to 2027

Market Report | 2022-09-14 | 306 pages | MarketsandMarkets

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.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
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

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

www.scotts-international.com

Zip Code*

Country*

Date

Signature