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Global Navigation Electronic Map Data Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Navigation Electronic Map Data market size is expected to reach $ 16647 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

Navigation Electronic Map Data refers to structured geospatial datasets collected, compiled, topologically connected, semantically encoded and continuously updated to support positioning, map matching, destination search, route calculation, turn-by-turn guidance, lane guidance and multimodal journey planning. The market covers navigable road networks, pedestrian paths, cycling infrastructure, public transport routes and stops, commercial-vehicle restrictions, addresses, points of interest, building entrances, parking facilities, traffic regulations, lane models and related 2D, 2.5D and 3D navigation attributes. Its principal product forms include road-vehicle navigation map data, pedestrian and micromobility navigation data, public-transport and multimodal data, ADAS map data, and high-definition automated-driving map data. Products are delivered through embedded databases, regional map packages, map tiles, APIs, cloud data feeds or hybrid onboard-cloud architectures. Commercial value is determined by geographic coverage, navigable topology, semantic accuracy, data freshness, localization, regulatory compliance and the ability to reuse a common database across vehicles, mobile applications, logistics platforms and intelligent-driving systems.

Key Findings

Asia-Pacific accounted for approximately 38% of global Navigation Electronic Map Data revenue in 2025

Standard navigation map data represented approximately 63% of functional-

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level market revenue

Cloud-based online delivery held about 47% share while hybrid delivery reached approximately 31%

Three-dimensional navigation map data accounted for approximately 18% of market revenue

Competition remains regionally concentrated with global platforms and local map specialists coexisting

Market Trends

Navigation Electronic Map Data is evolving from separately maintained road and point-of-interest databases into unified, multilayer location-data platforms. A common geographic foundation can now support vehicle navigation, walking, cycling, public transport, commercial fleets, ADAS and automated-driving applications, while different products are generated through differentiated topology, accuracy, attributes and update frequencies. Road-level navigation remains the commercial foundation, but lane models, three-dimensional road structures, indoor-outdoor continuity, accessibility information, electric-vehicle attributes and intelligent-driving content are becoming increasingly important. Delivery architecture is also shifting from periodic full-database releases toward modular cloud distribution, incremental updates and hybrid onboard-cloud deployment. Industry standards such as NDS increasingly support conventional navigation, electronic horizon, ADAS and high-definition map content within interoperable data structures. The long-term direction is therefore not a complete replacement of standard navigation maps, but the transformation of the map database into a continuously updated location-data foundation capable of serving multiple transport modes and automated vehicle functions.

Market Dynamics

Drivers

Market demand is supported by the continued expansion of embedded vehicle navigation, mobile location services, logistics digitalization, multimodal transport planning and intelligent-driving functions. Each downstream application requires a routable network rather than a simple visual basemap, creating sustained demand for

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topology, turn restrictions, addresses, points of interest, lane connections and vehicle-specific road attributes. Growth in connected vehicles and smartphones also allows suppliers to collect probe data, identify road changes and distribute incremental updates more efficiently. Electric vehicles require charging locations, energy-aware routing and range-related road attributes, while commercial fleets need vehicle dimensions, weight restrictions and logistics facilities. Pedestrian, cycling and public-transport applications add further demand for paths, station entrances, transfer connections, accessibility attributes and first- or last-mile routing.

Restraints

Navigation Electronic Map Data requires substantial and recurring investment in surveying, imagery, address and point-of-interest maintenance, topology construction, semantic coding, quality verification and regional localization. The economics favor suppliers that can reuse a common data foundation across customers and applications, creating significant scale barriers for new entrants. Geographic-information regulation, map-review requirements and restrictions on collecting or transferring vehicle-generated location data further limit cross-border replication. In markets with strict mapping qualifications and security controls, global platforms frequently need local production entities or licensed partners. Free consumer navigation also places downward pressure on the perceived value of basic map content, while enterprise and automotive customers require long support periods, high availability and extensive customization without necessarily paying separately for every data layer.

Opportunities

The strongest opportunities lie in extending established navigation databases into higher-value data layers and specialized applications. Lane-level navigation, electronic horizon, ADAS attributes, high-definition road geometry and three-dimensional intersections can increase revenue per vehicle or enterprise customer. Pedestrian accessibility, cycling safety, micromobility restrictions and multimodal transfer data remain less standardized than conventional road navigation and offer room for regional specialists. Commercial-vehicle maps can differentiate through height, weight, axle-load, hazardous-material and road-access restrictions, while electric-vehicle maps require charging-station detail and energy-aware routing. Indoor parking, airports, railway stations, campuses and commercial venues create additional demand for seamless indoor-outdoor navigation. Modular APIs and hybrid deployment also enable automakers and digital platforms to purchase map content while retaining control of their own navigation engines, interfaces and customer relationships.

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Challenges

The principal challenge is maintaining consistency among road-level, lane-level, three-dimensional, indoor, dynamic and automated-driving data layers that may be collected through different technologies and updated at different frequencies. Crowdsourced observations and vehicle-probe data improve freshness but require validation, privacy controls and compliance with geographic-information regulations. Interoperability remains difficult because map suppliers, navigation engines, vehicle operating systems and downstream applications often use proprietary formats and attribute definitions. Industry standards reduce integration costs but do not eliminate differences in regional content, quality thresholds or customer requirements. Suppliers must also allocate investment between mature standard-navigation content and faster-growing ADAS or high-definition products whose commercial models continue to evolve. Open-map ecosystems can lower basic data acquisition costs, but commercial suppliers must still demonstrate superior accuracy, coverage, support and liability management.

Value Chain Analysis

The upstream value chain consists of satellite and aerial imagery, mapping vehicles, GNSS and inertial positioning, government road and public-transport information, address and point-of-interest sources, vehicle-probe data, user feedback and open geographic datasets. These inputs differ in positional accuracy, licensing rights, update frequency and geographic coverage. The critical production task is not simply collecting geographic objects, but converting them into a connected and routable network with correct directional relationships, access rules, lane structures and semantic attributes. Continuous comparison among field surveys, authoritative records, partner data and crowdsourced observations is required to detect road openings, closures, regulatory changes and facility updates.

Midstream suppliers perform topology construction, semantic coding, localization, quality control, format conversion, map compilation, cloud hosting and incremental-update management. The resulting products are delivered as databases, data layers, regional packages, tiles, APIs or streaming services. Downstream customers include automakers, Tier 1 suppliers, navigation software developers, mobile platforms, logistics and fleet operators, public-transport applications, micromobility companies and intelligent-driving system providers. Value creation depends on data reuse: a shared road, address and point-of-interest foundation can support multiple products, while each navigation mode requires specialized topology and routing costs. Profitability improves with geographic scale and platform reuse but is reduced by manual verification, regional

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surveys, customer-specific engineering, regulatory compliance and long-term maintenance obligations.

Segment Insights

By navigation mode, road-vehicle navigation map data represented approximately 36% of market revenue in 2025 and remained the largest individual segment, supported by passenger vehicles, commercial fleets, motorcycles and embedded navigation systems. ADAS and automated-driving map data accounted for approximately 27% and represented the principal premium segment because of its higher semantic density, lane-level content and update requirements. Personal and micromobility navigation data accounted for approximately 24%, reflecting the broad use of pedestrian, cycling and location applications. Public-transport and multimodal navigation data represented approximately 13%, with value concentrated in route, stop, timetable, transfer and first- or last-mile connectivity information. These segments share underlying geographic content but require different networks, restrictions and route-cost models.

By functional and accuracy level, standard navigation map data accounted for approximately 63% of revenue in 2025 because it supports the broadest range of vehicle, mobile and enterprise applications. Lane-level and ADAS map data represented approximately 25%, while high-definition and automated-driving map data accounted for approximately 12%. By delivery architecture, cloud-based online map data held approximately 47%, hybrid map data approximately 31%, and embedded or offline data approximately 22%. Offline deployment remains important where network availability is uncertain, while cloud delivery improves freshness and scalability. Hybrid architectures are gaining importance in automotive and professional navigation because they combine local reliability with incremental cloud updates. Two-dimensional and 2.5D data remained dominant, while three-dimensional navigation data accounted for approximately 18% and was concentrated in premium automotive, complex urban, parking and indoor-navigation applications.

Downstream Market Opportunities

Vehicle navigation remains a major downstream opportunity, but incremental value is increasingly generated by lane-level guidance, electric-vehicle routing, commercial-vehicle restrictions and continuous map updates rather than basic turn-by-turn navigation alone. Mobile and web platforms require pedestrian, cycling, transit and place data that can be monetized through APIs and enterprise subscriptions. Logistics and fleet customers value accurate addresses, access points, loading facilities, vehicle restrictions and route optimization. Public-transport and multimodal applications require

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reliable transfer relationships and walking connections, while accessibility navigation creates demand for elevators, stairs, crossings, gradients and barrier-free paths. ADAS and automated-driving customers represent a higher-value opportunity through curvature, slope, lane topology, traffic signs, road boundaries and localization features. Parking facilities, airports, stations, campuses and large commercial venues provide additional opportunities for indoor-outdoor continuity and three-dimensional navigation.

Regional Insights

Asia-Pacific accounted for approximately 38% of global revenue in 2025, supported by large automotive and mobile-navigation user bases, rapid connected-vehicle adoption and strong domestic mapping platforms. China, Japan, South Korea and India each maintain distinct local map ecosystems because of language, address structures, road complexity, regulatory requirements and OEM relationships. China places particular emphasis on mapping qualifications, data security and map review, while Japan and South Korea retain specialized automotive map providers with detailed domestic databases. India and Southeast Asia offer opportunities for suppliers capable of improving address precision, offline coverage, two-wheeler routing, logistics data and locally adapted navigation.

North America represented approximately 31% of revenue, reflecting the high commercial value of enterprise map APIs, mobile platforms, logistics applications and automated-driving development. Europe accounted for approximately 25% and is characterized by multinational automotive programs, cross-border routing, transport-mode integration and demand for regulatory road attributes. Other regions represented approximately 6%, with opportunities concentrated in localized road mapping, address development, commercial-vehicle navigation and urban mobility platforms. Regional competition is shaped less by basic software availability than by the ability to maintain accurate local content, comply with geographic-data rules and integrate with established vehicle, mobile and public-transport ecosystems.

Competitive Landscape Analysis

The Navigation Electronic Map Data market is regionally concentrated but structurally broader than the vehicle-navigation map market alone. Global platforms compete through multinational coverage, cloud infrastructure, APIs, standardized delivery and the ability to support several transport modes from a shared database. Automotive specialists differentiate through vehicle-grade quality, long lifecycle support, lane and ADAS attributes and established OEM relationships. Regional platforms retain advantages in local addresses, road regulations, languages, public-transport data,

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government compliance and frequently updated points of interest. Competition therefore occurs across several layers: ownership and maintenance of the underlying map database, specialized navigation-mode content, cloud delivery, software integration and continuous updates. Suppliers such as HERE and TomTom emphasize globally scalable automotive and enterprise platforms, while Toyota Mapmaster and other regional specialists rely on detailed domestic data and customer relationships. Mappls illustrates the opportunity for locally developed platforms to combine automotive, pedestrian, trucking, enterprise API and high-definition content. The market is moving toward unified databases and modular products, but regulatory localization and regional data depth continue to prevent a single platform from achieving uniform dominance across all countries and applications.

Report Scope

This report studies the global Navigation Electronic Map Data demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Navigation Electronic Map Data, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Navigation Electronic Map Data that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Navigation Electronic Map Data total market, 2021-2032, (USD Million)

Global Navigation Electronic Map Data total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Navigation Electronic Map Data total market, key domestic companies, and share, (USD Million)

Global Navigation Electronic Map Data revenue by player, revenue and market share 2021-2026, (USD Million)

Global Navigation Electronic Map Data total market by Type, CAGR, 2021-2032, (USD Million)

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Global Navigation Electronic Map Data total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Navigation Electronic Map Data market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include HERE Technologies, TomTom, ZENRIN, Toyota Mapmaster, Hyundai AutoEver, Mappers, Mapbox, GeoTechnologies, Trimble Maps, CE Info Systems Limited (Mappls & MapmyIndia), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Navigation Electronic Map Data market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Navigation Electronic Map Data Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Market Segmentation

Global Navigation Electronic Map Data Market, Segmentation by Type:

Standard Definition Navigation Map Data

Lane-Level Navigation Map Data

High-Definition Map Data

Global Navigation Electronic Map Data Market, Segmentation by Spatial Representation:

2D and 2.5D Navigation Map Data

3D Navigation Map Data

Global Navigation Electronic Map Data Market, Segmentation by Delivery Architecture:

Embedded and Offline Map Data

Cloud-Based Online Map Data

Hybrid Map Data

Global Navigation Electronic Map Data Market, Segmentation by Application:

In-Vehicle Navigation

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Pedestrian and Accessible Navigation

Cycling and Micromobility Navigation

Public Transport and Multimodal Journey Planning

Commercial Vehicle and Fleet Navigation

ADAS and Automated Driving

Indoor, Parking and Venue Navigation

Map APIs and Location-Based Applications

Companies Profiled:

HERE Technologies

TomTom

ZENRIN

Toyota Mapmaster

Hyundai AutoEver

Mappers

Mapbox

GeoTechnologies

Trimble Maps

CE Info Systems Limited (Mappls & MapmyIndia)

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Kakao Mobility

TMAP Mobility

Dynamic Map Platform

Ba?arsoft Bilgi Teknolojileri A.?.

GrabMaps

AutoNavi Software Co., Ltd.

NavInfo

Google LLC

Apple

Navmii

Mobileye

Yandex

2GIS

NAVER Corporation

Shenzhen Careland Technology Co., Ltd.

Amap Software Co., Ltd.

Beijing Changdiwanfang Techology Co., Ltd

Beijing NavInfo Co., Ltd.

Tencent Dadi Tongtu

Langge Technology

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CICV Data

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Key Questions Answered

1. How big is the global Navigation Electronic Map Data market?
2. What is the demand of the global Navigation Electronic Map Data market?
3. What is the year over year growth of the global Navigation Electronic Map Data market?
4. What is the total value of the global Navigation Electronic Map Data market?
5. Who are the Major Players in the global Navigation Electronic Map Data market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

1.1 Navigation Electronic Map Data Introduction
1.2 World Navigation Electronic Map Data Market Size & Forecast (2021 & 2025 & 2032)
1.3 World Navigation Electronic Map Data Total Market by Region (by Headquarter Location)
  1.3.1 World Navigation Electronic Map Data Market Size by Region (2021-2032), (by Headquarter Location)
  1.3.2 United States Based Company Navigation Electronic Map Data Revenue (2021-2032)
  1.3.3 China Based Company Navigation Electronic Map Data Revenue (2021-2032)
  1.3.4 Europe Based Company Navigation Electronic Map Data Revenue (2021-2032)
  1.3.5 Japan Based Company Navigation Electronic Map Data Revenue (2021-2032)
  1.3.6 South Korea Based Company Navigation Electronic Map Data Revenue (2021-2032)
  1.3.7 ASEAN Based Company Navigation Electronic Map Data Revenue (2021-2032)
  1.3.8 India Based Company Navigation Electronic Map Data Revenue (2021-2032)
1.4 Market Drivers, Restraints and Trends
  1.4.1 Navigation Electronic Map Data Market Drivers
  1.4.2 Factors Affecting Demand
  1.4.3 Major Market Trends

2 DEMAND SUMMARY

2.1 World Navigation Electronic Map Data Consumption Value (2021-2032)
2.2 World Navigation Electronic Map Data Consumption Value by Region
  2.2.1 World Navigation Electronic Map Data Consumption Value by Region (2021-2026)
  2.2.2 World Navigation Electronic Map Data Consumption Value Forecast by Region (2027-2032)
2.3 United States Navigation Electronic Map Data Consumption Value (2021-2032)
2.4 China Navigation Electronic Map Data Consumption Value (2021-2032)
2.5 Europe Navigation Electronic Map Data Consumption Value (2021-2032)
2.6 Japan Navigation Electronic Map Data Consumption Value (2021-2032)
2.7 South Korea Navigation Electronic Map Data Consumption Value (2021-2032)
2.8 ASEAN Navigation Electronic Map Data Consumption Value (2021-2032)

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2.9 India Navigation Electronic Map Data Consumption Value (2021-2032)

3 WORLD NAVIGATION ELECTRONIC MAP DATA COMPANIES COMPETITIVE ANALYSIS

3.1 World Navigation Electronic Map Data Revenue by Player (2021-2026)
3.2 Industry Rank and Concentration Rate (CR)
  3.2.1 Global Navigation Electronic Map Data Industry Rank of Major Players
  3.2.2 Global Concentration Ratios (CR4) for Navigation Electronic Map Data in 2025
  3.2.3 Global Concentration Ratios (CR8) for Navigation Electronic Map Data in 2025
3.3 Navigation Electronic Map Data Company Evaluation Quadrant
3.4 Navigation Electronic Map Data Market: Overall Company Footprint Analysis
  3.4.1 Navigation Electronic Map Data Market: Region Footprint
  3.4.2 Navigation Electronic Map Data Market: Company Product Type Footprint
  3.4.3 Navigation Electronic Map Data Market: Company Product Application Footprint
3.5 Competitive Environment
  3.5.1 Historical Structure of the Industry
  3.5.2 Barriers of Market Entry
  3.5.3 Factors of Competition
3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

4.1 United States VS China: Navigation Electronic Map Data Revenue Comparison (by Headquarter Location)
  4.1.1 United States VS China: Navigation Electronic Map Data Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
  4.1.2 United States VS China: Navigation Electronic Map Data Revenue Market Share Comparison (2021 & 2025 & 2032)
4.2 United States Based Companies VS China Based Companies: Navigation Electronic Map Data Consumption Value Comparison
  4.2.1 United States VS China: Navigation Electronic Map Data Consumption Value Comparison (2021 & 2025 & 2032)
  4.2.2 United States VS China: Navigation Electronic Map Data Consumption Value Market Share Comparison (2021 & 2025 & 2032)
4.3 United States Based Navigation Electronic Map Data Companies and Market Share, 2021-2026
  4.3.1 United States Based Navigation Electronic Map Data Companies, Headquarters

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(States, Country)
4.3.2 United States Based Companies Navigation Electronic Map Data Revenue, (2021-2026)
4.4 China Based Companies Navigation Electronic Map Data Revenue and Market Share, 2021-2026
4.4.1 China Based Navigation Electronic Map Data Companies, Company Headquarters (Province, Country)
4.4.2 China Based Companies Navigation Electronic Map Data Revenue, (2021-2026)
4.5 Rest of World Based Navigation Electronic Map Data Companies and Market Share, 2021-2026
4.5.1 Rest of World Based Navigation Electronic Map Data Companies, Headquarters (Province, Country)
4.5.2 Rest of World Based Companies Navigation Electronic Map Data Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Navigation Electronic Map Data Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Standard Definition Navigation Map Data
5.2.2 Lane-Level Navigation Map Data
5.2.3 High-Definition Map Data
5.3 Market Segment by Type
5.3.1 World Navigation Electronic Map Data Market Size by Type (2021-2026)
5.3.2 World Navigation Electronic Map Data Market Size by Type (2027-2032)
5.3.3 World Navigation Electronic Map Data Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY SPATIAL REPRESENTATION

6.1 World Navigation Electronic Map Data Market Size Overview by Spatial Representation: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Spatial Representation
6.2.1 2D and 2.5D Navigation Map Data
6.2.2 3D Navigation Map Data
6.3 Market Segment by Spatial Representation
6.3.1 World Navigation Electronic Map Data Market Size by Spatial Representation (2021-2026)

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6.3.2 World Navigation Electronic Map Data Market Size by Spatial Representation (2027-2032)
6.3.3 World Navigation Electronic Map Data Market Size Market Share by Spatial Representation (2027-2032)

7 MARKET ANALYSIS BY DELIVERY ARCHITECTURE

7.1 World Navigation Electronic Map Data Market Size Overview by Delivery Architecture: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Delivery Architecture
7.2.1 Embedded and Offline Map Data
7.2.2 Cloud-Based Online Map Data
7.2.3 Hybrid Map Data
7.3 Market Segment by Delivery Architecture
7.3.1 World Navigation Electronic Map Data Market Size by Delivery Architecture (2021-2026)
7.3.2 World Navigation Electronic Map Data Market Size by Delivery Architecture (2027-2032)
7.3.3 World Navigation Electronic Map Data Market Size Market Share by Delivery Architecture (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Navigation Electronic Map Data Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 In-Vehicle Navigation
8.2.2 Pedestrian and Accessible Navigation
8.2.3 Cycling and Micromobility Navigation
8.2.4 Public Transport and Multimodal Journey Planning
8.2.5 Commercial Vehicle and Fleet Navigation
8.2.6 ADAS and Automated Driving
8.2.7 Indoor, Parking and Venue Navigation
8.2.8 Map APIs and Location-Based Applications
8.3 Market Segment by Application
8.3.1 World Navigation Electronic Map Data Market Size by Application (2021-2026)
8.3.2 World Navigation Electronic Map Data Market Size by Application (2027-2032)
8.3.3 World Navigation Electronic Map Data Market Size Market Share by Application (2021-2032)

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9 COMPANY PROFILES

9.1 HERE Technologies
9.1.1 HERE Technologies Details
9.1.2 HERE Technologies Major Business
9.1.3 HERE Technologies Navigation Electronic Map Data Product and Services
9.1.4 HERE Technologies Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.1.5 HERE Technologies Recent Developments/Updates
9.1.6 HERE Technologies Competitive Strengths & Weaknesses
9.2 TomTom
9.2.1 TomTom Details
9.2.2 TomTom Major Business
9.2.3 TomTom Navigation Electronic Map Data Product and Services
9.2.4 TomTom Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.2.5 TomTom Recent Developments/Updates
9.2.6 TomTom Competitive Strengths & Weaknesses
9.3 ZENRIN
9.3.1 ZENRIN Details
9.3.2 ZENRIN Major Business
9.3.3 ZENRIN Navigation Electronic Map Data Product and Services
9.3.4 ZENRIN Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.3.5 ZENRIN Recent Developments/Updates
9.3.6 ZENRIN Competitive Strengths & Weaknesses
9.4 Toyota Mapmaster
9.4.1 Toyota Mapmaster Details
9.4.2 Toyota Mapmaster Major Business
9.4.3 Toyota Mapmaster Navigation Electronic Map Data Product and Services
9.4.4 Toyota Mapmaster Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.4.5 Toyota Mapmaster Recent Developments/Updates
9.4.6 Toyota Mapmaster Competitive Strengths & Weaknesses
9.5 Hyundai AutoEver
9.5.1 Hyundai AutoEver Details
9.5.2 Hyundai AutoEver Major Business
9.5.3 Hyundai AutoEver Navigation Electronic Map Data Product and Services

+357 96 030922
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9.5.4 Hyundai AutoEver Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.5.5 Hyundai AutoEver Recent Developments/Updates
9.5.6 Hyundai AutoEver Competitive Strengths & Weaknesses
9.6 Mappers
9.6.1 Mappers Details
9.6.2 Mappers Major Business
9.6.3 Mappers Navigation Electronic Map Data Product and Services
9.6.4 Mappers Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.6.5 Mappers Recent Developments/Updates
9.6.6 Mappers Competitive Strengths & Weaknesses
9.7 Mapbox
9.7.1 Mapbox Details
9.7.2 Mapbox Major Business
9.7.3 Mapbox Navigation Electronic Map Data Product and Services
9.7.4 Mapbox Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.7.5 Mapbox Recent Developments/Updates
9.7.6 Mapbox Competitive Strengths & Weaknesses
9.8 GeoTechnologies
9.8.1 GeoTechnologies Details
9.8.2 GeoTechnologies Major Business
9.8.3 GeoTechnologies Navigation Electronic Map Data Product and Services
9.8.4 GeoTechnologies Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.8.5 GeoTechnologies Recent Developments/Updates
9.8.6 GeoTechnologies Competitive Strengths & Weaknesses
9.9 Trimble Maps
9.9.1 Trimble Maps Details
9.9.2 Trimble Maps Major Business
9.9.3 Trimble Maps Navigation Electronic Map Data Product and Services
9.9.4 Trimble Maps Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.9.5 Trimble Maps Recent Developments/Updates
9.9.6 Trimble Maps Competitive Strengths & Weaknesses
9.10 CE Info Systems Limited (Mappls & MapmyIndia)
9.10.1 CE Info Systems Limited (Mappls & MapmyIndia) Details
9.10.2 CE Info Systems Limited (Mappls & MapmyIndia) Major Business

+357 96 030922
info@marketpublishers.com

9.10.3 CE Info Systems Limited (Mappls & MapmyIndia) Navigation Electronic Map Data Product and Services
9.10.4 CE Info Systems Limited (Mappls & MapmyIndia) Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.10.5 CE Info Systems Limited (Mappls & MapmyIndia) Recent Developments/Updates
9.10.6 CE Info Systems Limited (Mappls & MapmyIndia) Competitive Strengths & Weaknesses
9.11 Kakao Mobility
9.11.1 Kakao Mobility Details
9.11.2 Kakao Mobility Major Business
9.11.3 Kakao Mobility Navigation Electronic Map Data Product and Services
9.11.4 Kakao Mobility Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.11.5 Kakao Mobility Recent Developments/Updates
9.11.6 Kakao Mobility Competitive Strengths & Weaknesses
9.12 TMAP Mobility
9.12.1 TMAP Mobility Details
9.12.2 TMAP Mobility Major Business
9.12.3 TMAP Mobility Navigation Electronic Map Data Product and Services
9.12.4 TMAP Mobility Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.12.5 TMAP Mobility Recent Developments/Updates
9.12.6 TMAP Mobility Competitive Strengths & Weaknesses
9.13 Dynamic Map Platform
9.13.1 Dynamic Map Platform Details
9.13.2 Dynamic Map Platform Major Business
9.13.3 Dynamic Map Platform Navigation Electronic Map Data Product and Services
9.13.4 Dynamic Map Platform Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.13.5 Dynamic Map Platform Recent Developments/Updates
9.13.6 Dynamic Map Platform Competitive Strengths & Weaknesses
9.14 Ba?arsoft Bilgi Teknolojileri A.?.
9.14.1 Ba?arsoft Bilgi Teknolojileri A.?. Details
9.14.2 Ba?arsoft Bilgi Teknolojileri A.?. Major Business
9.14.3 Ba?arsoft Bilgi Teknolojileri A.?. Navigation Electronic Map Data Product and Services
9.14.4 Ba?arsoft Bilgi Teknolojileri A.?. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.14.5 Ba?arsoft Bilgi Teknolojileri A.?. Recent Developments/Updates
9.14.6 Ba?arsoft Bilgi Teknolojileri A.?. Competitive Strengths & Weaknesses
9.15 GrabMaps
9.15.1 GrabMaps Details
9.15.2 GrabMaps Major Business
9.15.3 GrabMaps Navigation Electronic Map Data Product and Services
9.15.4 GrabMaps Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.15.5 GrabMaps Recent Developments/Updates
9.15.6 GrabMaps Competitive Strengths & Weaknesses
9.16 AutoNavi Software Co., Ltd.
9.16.1 AutoNavi Software Co., Ltd. Details
9.16.2 AutoNavi Software Co., Ltd. Major Business
9.16.3 AutoNavi Software Co., Ltd. Navigation Electronic Map Data Product and Services
9.16.4 AutoNavi Software Co., Ltd. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.16.5 AutoNavi Software Co., Ltd. Recent Developments/Updates
9.16.6 AutoNavi Software Co., Ltd. Competitive Strengths & Weaknesses
9.17 NavInfo
9.17.1 NavInfo Details
9.17.2 NavInfo Major Business
9.17.3 NavInfo Navigation Electronic Map Data Product and Services
9.17.4 NavInfo Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.17.5 NavInfo Recent Developments/Updates
9.17.6 NavInfo Competitive Strengths & Weaknesses
9.18 Google LLC
9.18.1 Google LLC Details
9.18.2 Google LLC Major Business
9.18.3 Google LLC Navigation Electronic Map Data Product and Services
9.18.4 Google LLC Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.18.5 Google LLC Recent Developments/Updates
9.18.6 Google LLC Competitive Strengths & Weaknesses
9.19 Apple
9.19.1 Apple Details
9.19.2 Apple Major Business
9.19.3 Apple Navigation Electronic Map Data Product and Services

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9.19.4 Apple Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.19.5 Apple Recent Developments/Updates
9.19.6 Apple Competitive Strengths & Weaknesses
9.20 Navmii
9.20.1 Navmii Details
9.20.2 Navmii Major Business
9.20.3 Navmii Navigation Electronic Map Data Product and Services
9.20.4 Navmii Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.20.5 Navmii Recent Developments/Updates
9.20.6 Navmii Competitive Strengths & Weaknesses
9.21 Mobileye
9.21.1 Mobileye Details
9.21.2 Mobileye Major Business
9.21.3 Mobileye Navigation Electronic Map Data Product and Services
9.21.4 Mobileye Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.21.5 Mobileye Recent Developments/Updates
9.21.6 Mobileye Competitive Strengths & Weaknesses
9.22 Yandex
9.22.1 Yandex Details
9.22.2 Yandex Major Business
9.22.3 Yandex Navigation Electronic Map Data Product and Services
9.22.4 Yandex Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.22.5 Yandex Recent Developments/Updates
9.22.6 Yandex Competitive Strengths & Weaknesses
9.23 2GIS
9.23.1 2GIS Details
9.23.2 2GIS Major Business
9.23.3 2GIS Navigation Electronic Map Data Product and Services
9.23.4 2GIS Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.23.5 2GIS Recent Developments/Updates
9.23.6 2GIS Competitive Strengths & Weaknesses
9.24 NAVER Corporation
9.24.1 NAVER Corporation Details
9.24.2 NAVER Corporation Major Business

+357 96 030922
info@marketpublishers.com

9.24.3 NAVER Corporation Navigation Electronic Map Data Product and Services
9.24.4 NAVER Corporation Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.24.5 NAVER Corporation Recent Developments/Updates
9.24.6 NAVER Corporation Competitive Strengths & Weaknesses
9.25 Shenzhen Careland Technology Co., Ltd.
9.25.1 Shenzhen Careland Technology Co., Ltd. Details
9.25.2 Shenzhen Careland Technology Co., Ltd. Major Business
9.25.3 Shenzhen Careland Technology Co., Ltd. Navigation Electronic Map Data Product and Services
9.25.4 Shenzhen Careland Technology Co., Ltd. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.25.5 Shenzhen Careland Technology Co., Ltd. Recent Developments/Updates
9.25.6 Shenzhen Careland Technology Co., Ltd. Competitive Strengths & Weaknesses
9.26 Amap Software Co., Ltd.
9.26.1 Amap Software Co., Ltd. Details
9.26.2 Amap Software Co., Ltd. Major Business
9.26.3 Amap Software Co., Ltd. Navigation Electronic Map Data Product and Services
9.26.4 Amap Software Co., Ltd. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.26.5 Amap Software Co., Ltd. Recent Developments/Updates
9.26.6 Amap Software Co., Ltd. Competitive Strengths & Weaknesses
9.27 Beijing Changdiwanfang Techology Co., Ltd
9.27.1 Beijing Changdiwanfang Techology Co., Ltd Details
9.27.2 Beijing Changdiwanfang Techology Co., Ltd Major Business
9.27.3 Beijing Changdiwanfang Techology Co., Ltd Navigation Electronic Map Data Product and Services
9.27.4 Beijing Changdiwanfang Techology Co., Ltd Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.27.5 Beijing Changdiwanfang Techology Co., Ltd Recent Developments/Updates
9.27.6 Beijing Changdiwanfang Techology Co., Ltd Competitive Strengths & Weaknesses
9.28 Beijing NavInfo Co., Ltd.
9.28.1 Beijing NavInfo Co., Ltd. Details
9.28.2 Beijing NavInfo Co., Ltd. Major Business
9.28.3 Beijing NavInfo Co., Ltd. Navigation Electronic Map Data Product and Services
9.28.4 Beijing NavInfo Co., Ltd. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)

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info@marketpublishers.com

9.28.5 Beijing NavInfo Co., Ltd. Recent Developments/Updates
9.28.6 Beijing NavInfo Co., Ltd. Competitive Strengths & Weaknesses
9.29 Tencent Dadi Tongtu
9.29.1 Tencent Dadi Tongtu Details
9.29.2 Tencent Dadi Tongtu Major Business
9.29.3 Tencent Dadi Tongtu Navigation Electronic Map Data Product and Services
9.29.4 Tencent Dadi Tongtu Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.29.5 Tencent Dadi Tongtu Recent Developments/Updates
9.29.6 Tencent Dadi Tongtu Competitive Strengths & Weaknesses
9.30 Langge Technology
9.30.1 Langge Technology Details
9.30.2 Langge Technology Major Business
9.30.3 Langge Technology Navigation Electronic Map Data Product and Services
9.30.4 Langge Technology Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.30.5 Langge Technology Recent Developments/Updates
9.30.6 Langge Technology Competitive Strengths & Weaknesses
9.31 CICV Data
9.31.1 CICV Data Details
9.31.2 CICV Data Major Business
9.31.3 CICV Data Navigation Electronic Map Data Product and Services
9.31.4 CICV Data Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.31.5 CICV Data Recent Developments/Updates
9.31.6 CICV Data Competitive Strengths & Weaknesses
9.32 KUANDENG
9.32.1 KUANDENG Details
9.32.2 KUANDENG Major Business
9.32.3 KUANDENG Navigation Electronic Map Data Product and Services
9.32.4 KUANDENG Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026)
9.32.5 KUANDENG Recent Developments/Updates
9.32.6 KUANDENG Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Navigation Electronic Map Data Industry Chain
10.2 Navigation Electronic Map Data Upstream Analysis

+357 96 030922
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10.3 Navigation Electronic Map Data Midstream Analysis
10.4 Navigation Electronic Map Data Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
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List Of Tables

LIST OF TABLES

Table 1. World Navigation Electronic Map Data Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Table 2. World Navigation Electronic Map Data Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)
Table 3. World Navigation Electronic Map Data Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)
Table 4. World Navigation Electronic Map Data Revenue Market Share by Region (2021-2026), (by Headquarter Location)
Table 5. World Navigation Electronic Map Data Revenue Market Share by Region (2027-2032), (by Headquarter Location)
Table 6. Major Market Trends
Table 7. World Navigation Electronic Map Data Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)
Table 8. World Navigation Electronic Map Data Consumption Value by Region (2021-2026) & (USD Million)
Table 9. World Navigation Electronic Map Data Consumption Value Forecast by Region (2027-2032) & (USD Million)
Table 10. World Navigation Electronic Map Data Revenue by Player (2021-2026) & (USD Million)
Table 11. Revenue Market Share of Key Navigation Electronic Map Data Players in 2025
Table 12. World Navigation Electronic Map Data Industry Rank of Major Player, Based on Revenue in 2025
Table 13. Global Navigation Electronic Map Data Company Evaluation Quadrant
Table 14. Head Office of Key Navigation Electronic Map Data Players
Table 15. Navigation Electronic Map Data Market: Company Product Type Footprint
Table 16. Navigation Electronic Map Data Market: Company Product Application Footprint
Table 17. Navigation Electronic Map Data Mergers & Acquisitions Activity
Table 18. United States VS China Navigation Electronic Map Data Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 19. United States VS China Navigation Electronic Map Data Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 20. United States Based Navigation Electronic Map Data Companies, Headquarters (States, Country)

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Table 21. United States Based Companies Navigation Electronic Map Data Revenue, (2021-2026) & (USD Million)
Table 22. United States Based Companies Navigation Electronic Map Data Revenue Market Share (2021-2026)
Table 23. China Based Navigation Electronic Map Data Companies, Headquarters (Province, Country)
Table 24. China Based Companies Navigation Electronic Map Data Revenue, (2021-2026) & (USD Million)
Table 25. China Based Companies Navigation Electronic Map Data Revenue Market Share (2021-2026)
Table 26. Rest of World Based Navigation Electronic Map Data Companies, Headquarters (Province, Country)
Table 27. Rest of World Based Companies Navigation Electronic Map Data Revenue (2021-2026) & (USD Million)
Table 28. Rest of World Based Companies Navigation Electronic Map Data Revenue Market Share (2021-2026)
Table 29. World Navigation Electronic Map Data Market Size by Type, (USD Million), 2021 & 2025 & 2032
Table 30. World Navigation Electronic Map Data Market Size Value by Type (2021-2026) & (USD Million)
Table 31. World Navigation Electronic Map Data Market Size by Type (2027-2032) & (USD Million)
Table 32. World Navigation Electronic Map Data Market Size by Spatial Representation, (USD Million), 2021 & 2025 & 2032
Table 33. World Navigation Electronic Map Data Market Size Value by Spatial Representation (2021-2026) & (USD Million)
Table 34. World Navigation Electronic Map Data Market Size by Spatial Representation (2027-2032) & (USD Million)
Table 35. World Navigation Electronic Map Data Market Size by Delivery Architecture, (USD Million), 2021 & 2025 & 2032
Table 36. World Navigation Electronic Map Data Market Size Value by Delivery Architecture (2021-2026) & (USD Million)
Table 37. World Navigation Electronic Map Data Market Size by Delivery Architecture (2027-2032) & (USD Million)
Table 38. World Navigation Electronic Map Data Market Size by Application, (USD Million), 2021 & 2025 & 2032
Table 39. World Navigation Electronic Map Data Market Size by Application (2021-2026) & (USD Million)
Table 40. World Navigation Electronic Map Data Market Size by Application

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(2027-2032) & (USD Million)
Table 41. HERE Technologies Basic Information, Manufacturing Base and Competitors
Table 42. HERE Technologies Major Business
Table 43. HERE Technologies Navigation Electronic Map Data Product and Services
Table 44. HERE Technologies Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 45. HERE Technologies Recent Developments/Updates
Table 46. HERE Technologies Competitive Strengths & Weaknesses
Table 47. TomTom Basic Information, Manufacturing Base and Competitors
Table 48. TomTom Major Business
Table 49. TomTom Navigation Electronic Map Data Product and Services
Table 50. TomTom Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 51. TomTom Recent Developments/Updates
Table 52. TomTom Competitive Strengths & Weaknesses
Table 53. ZENRIN Basic Information, Manufacturing Base and Competitors
Table 54. ZENRIN Major Business
Table 55. ZENRIN Navigation Electronic Map Data Product and Services
Table 56. ZENRIN Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 57. ZENRIN Recent Developments/Updates
Table 58. ZENRIN Competitive Strengths & Weaknesses
Table 59. Toyota Mapmaster Basic Information, Manufacturing Base and Competitors
Table 60. Toyota Mapmaster Major Business
Table 61. Toyota Mapmaster Navigation Electronic Map Data Product and Services
Table 62. Toyota Mapmaster Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 63. Toyota Mapmaster Recent Developments/Updates
Table 64. Toyota Mapmaster Competitive Strengths & Weaknesses
Table 65. Hyundai AutoEver Basic Information, Manufacturing Base and Competitors
Table 66. Hyundai AutoEver Major Business
Table 67. Hyundai AutoEver Navigation Electronic Map Data Product and Services
Table 68. Hyundai AutoEver Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 69. Hyundai AutoEver Recent Developments/Updates
Table 70. Hyundai AutoEver Competitive Strengths & Weaknesses
Table 71. Mappers Basic Information, Manufacturing Base and Competitors
Table 72. Mappers Major Business
Table 73. Mappers Navigation Electronic Map Data Product and Services

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Table 74. Mappers Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 75. Mappers Recent Developments/Updates
Table 76. Mappers Competitive Strengths & Weaknesses
Table 77. Mapbox Basic Information, Manufacturing Base and Competitors
Table 78. Mapbox Major Business
Table 79. Mapbox Navigation Electronic Map Data Product and Services
Table 80. Mapbox Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 81. Mapbox Recent Developments/Updates
Table 82. Mapbox Competitive Strengths & Weaknesses
Table 83. GeoTechnologies Basic Information, Manufacturing Base and Competitors
Table 84. GeoTechnologies Major Business
Table 85. GeoTechnologies Navigation Electronic Map Data Product and Services
Table 86. GeoTechnologies Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 87. GeoTechnologies Recent Developments/Updates
Table 88. GeoTechnologies Competitive Strengths & Weaknesses
Table 89. Trimble Maps Basic Information, Manufacturing Base and Competitors
Table 90. Trimble Maps Major Business
Table 91. Trimble Maps Navigation Electronic Map Data Product and Services
Table 92. Trimble Maps Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 93. Trimble Maps Recent Developments/Updates
Table 94. Trimble Maps Competitive Strengths & Weaknesses
Table 95. CE Info Systems Limited (Mappls & MapmyIndia) Basic Information, Manufacturing Base and Competitors
Table 96. CE Info Systems Limited (Mappls & MapmyIndia) Major Business
Table 97. CE Info Systems Limited (Mappls & MapmyIndia) Navigation Electronic Map Data Product and Services
Table 98. CE Info Systems Limited (Mappls & MapmyIndia) Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 99. CE Info Systems Limited (Mappls & MapmyIndia) Recent Developments/Updates
Table 100. CE Info Systems Limited (Mappls & MapmyIndia) Competitive Strengths & Weaknesses
Table 101. Kakao Mobility Basic Information, Manufacturing Base and Competitors
Table 102. Kakao Mobility Major Business
Table 103. Kakao Mobility Navigation Electronic Map Data Product and Services

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Table 104. Kakao Mobility Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 105. Kakao Mobility Recent Developments/Updates
Table 106. Kakao Mobility Competitive Strengths & Weaknesses
Table 107. TMAP Mobility Basic Information, Manufacturing Base and Competitors
Table 108. TMAP Mobility Major Business
Table 109. TMAP Mobility Navigation Electronic Map Data Product and Services
Table 110. TMAP Mobility Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 111. TMAP Mobility Recent Developments/Updates
Table 112. TMAP Mobility Competitive Strengths & Weaknesses
Table 113. Dynamic Map Platform Basic Information, Manufacturing Base and Competitors
Table 114. Dynamic Map Platform Major Business
Table 115. Dynamic Map Platform Navigation Electronic Map Data Product and Services
Table 116. Dynamic Map Platform Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 117. Dynamic Map Platform Recent Developments/Updates
Table 118. Dynamic Map Platform Competitive Strengths & Weaknesses
Table 119. Ba?arsoft Bilgi Teknolojileri A.?. Basic Information, Manufacturing Base and Competitors
Table 120. Ba?arsoft Bilgi Teknolojileri A.?. Major Business
Table 121. Ba?arsoft Bilgi Teknolojileri A.?. Navigation Electronic Map Data Product and Services
Table 122. Ba?arsoft Bilgi Teknolojileri A.?. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 123. Ba?arsoft Bilgi Teknolojileri A.?. Recent Developments/Updates
Table 124. Ba?arsoft Bilgi Teknolojileri A.?. Competitive Strengths & Weaknesses
Table 125. GrabMaps Basic Information, Manufacturing Base and Competitors
Table 126. GrabMaps Major Business
Table 127. GrabMaps Navigation Electronic Map Data Product and Services
Table 128. GrabMaps Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 129. GrabMaps Recent Developments/Updates
Table 130. GrabMaps Competitive Strengths & Weaknesses
Table 131. AutoNavi Software Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 132. AutoNavi Software Co., Ltd. Major Business

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Table 133. AutoNavi Software Co., Ltd. Navigation Electronic Map Data Product and Services
Table 134. AutoNavi Software Co., Ltd. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 135. AutoNavi Software Co., Ltd. Recent Developments/Updates
Table 136. AutoNavi Software Co., Ltd. Competitive Strengths & Weaknesses
Table 137. NavInfo Basic Information, Manufacturing Base and Competitors
Table 138. NavInfo Major Business
Table 139. NavInfo Navigation Electronic Map Data Product and Services
Table 140. NavInfo Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 141. NavInfo Recent Developments/Updates
Table 142. NavInfo Competitive Strengths & Weaknesses
Table 143. Google LLC Basic Information, Manufacturing Base and Competitors
Table 144. Google LLC Major Business
Table 145. Google LLC Navigation Electronic Map Data Product and Services
Table 146. Google LLC Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 147. Google LLC Recent Developments/Updates
Table 148. Google LLC Competitive Strengths & Weaknesses
Table 149. Apple Basic Information, Manufacturing Base and Competitors
Table 150. Apple Major Business
Table 151. Apple Navigation Electronic Map Data Product and Services
Table 152. Apple Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 153. Apple Recent Developments/Updates
Table 154. Apple Competitive Strengths & Weaknesses
Table 155. Navmii Basic Information, Manufacturing Base and Competitors
Table 156. Navmii Major Business
Table 157. Navmii Navigation Electronic Map Data Product and Services
Table 158. Navmii Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 159. Navmii Recent Developments/Updates
Table 160. Navmii Competitive Strengths & Weaknesses
Table 161. Mobileye Basic Information, Manufacturing Base and Competitors
Table 162. Mobileye Major Business
Table 163. Mobileye Navigation Electronic Map Data Product and Services
Table 164. Mobileye Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

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Table 165. Mobileye Recent Developments/Updates
Table 166. Mobileye Competitive Strengths & Weaknesses
Table 167. Yandex Basic Information, Manufacturing Base and Competitors
Table 168. Yandex Major Business
Table 169. Yandex Navigation Electronic Map Data Product and Services
Table 170. Yandex Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 171. Yandex Recent Developments/Updates
Table 172. Yandex Competitive Strengths & Weaknesses
Table 173. 2GIS Basic Information, Manufacturing Base and Competitors
Table 174. 2GIS Major Business
Table 175. 2GIS Navigation Electronic Map Data Product and Services
Table 176. 2GIS Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 177. 2GIS Recent Developments/Updates
Table 178. 2GIS Competitive Strengths & Weaknesses
Table 179. NAVER Corporation Basic Information, Manufacturing Base and Competitors
Table 180. NAVER Corporation Major Business
Table 181. NAVER Corporation Navigation Electronic Map Data Product and Services
Table 182. NAVER Corporation Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 183. NAVER Corporation Recent Developments/Updates
Table 184. NAVER Corporation Competitive Strengths & Weaknesses
Table 185. Shenzhen Careland Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 186. Shenzhen Careland Technology Co., Ltd. Major Business
Table 187. Shenzhen Careland Technology Co., Ltd. Navigation Electronic Map Data Product and Services
Table 188. Shenzhen Careland Technology Co., Ltd. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 189. Shenzhen Careland Technology Co., Ltd. Recent Developments/Updates
Table 190. Shenzhen Careland Technology Co., Ltd. Competitive Strengths & Weaknesses
Table 191. Amap Software Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 192. Amap Software Co., Ltd. Major Business
Table 193. Amap Software Co., Ltd. Navigation Electronic Map Data Product and Services

+357 96 030922
info@marketpublishers.com

Table 194. Amap Software Co., Ltd. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 195. Amap Software Co., Ltd. Recent Developments/Updates
Table 196. Amap Software Co., Ltd. Competitive Strengths & Weaknesses
Table 197. Beijing Changdiwanfang Techology Co., Ltd Basic Information, Manufacturing Base and Competitors
Table 198. Beijing Changdiwanfang Techology Co., Ltd Major Business
Table 199. Beijing Changdiwanfang Techology Co., Ltd Navigation Electronic Map Data Product and Services
Table 200. Beijing Changdiwanfang Techology Co., Ltd Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 201. Beijing Changdiwanfang Techology Co., Ltd Recent Developments/Updates
Table 202. Beijing Changdiwanfang Techology Co., Ltd Competitive Strengths & Weaknesses
Table 203. Beijing NavInfo Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 204. Beijing NavInfo Co., Ltd. Major Business
Table 205. Beijing NavInfo Co., Ltd. Navigation Electronic Map Data Product and Services
Table 206. Beijing NavInfo Co., Ltd. Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 207. Beijing NavInfo Co., Ltd. Recent Developments/Updates
Table 208. Beijing NavInfo Co., Ltd. Competitive Strengths & Weaknesses
Table 209. Tencent Dadi Tongtu Basic Information, Manufacturing Base and Competitors
Table 210. Tencent Dadi Tongtu Major Business
Table 211. Tencent Dadi Tongtu Navigation Electronic Map Data Product and Services
Table 212. Tencent Dadi Tongtu Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 213. Tencent Dadi Tongtu Recent Developments/Updates
Table 214. Tencent Dadi Tongtu Competitive Strengths & Weaknesses
Table 215. Langge Technology Basic Information, Manufacturing Base and Competitors
Table 216. Langge Technology Major Business
Table 217. Langge Technology Navigation Electronic Map Data Product and Services
Table 218. Langge Technology Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 219. Langge Technology Recent Developments/Updates
Table 220. Langge Technology Competitive Strengths & Weaknesses
Table 221. CICV Data Basic Information, Manufacturing Base and Competitors

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Table 222. CICV Data Major Business
Table 223. CICV Data Navigation Electronic Map Data Product and Services
Table 224. CICV Data Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 225. CICV Data Recent Developments/Updates
Table 226. CICV Data Competitive Strengths & Weaknesses
Table 227. KUANDENG Basic Information, Manufacturing Base and Competitors
Table 228. KUANDENG Major Business
Table 229. KUANDENG Navigation Electronic Map Data Product and Services
Table 230. KUANDENG Navigation Electronic Map Data Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
Table 231. KUANDENG Recent Developments/Updates
Table 232. KUANDENG Competitive Strengths & Weaknesses
Table 233. Global Key Players of Navigation Electronic Map Data Upstream (Raw Materials)
Table 234. Global Navigation Electronic Map Data Typical Customers

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List Of Figures

LIST OF FIGURES

Figure 1. Navigation Electronic Map Data Picture
Figure 2. World Navigation Electronic Map Data Total Revenue: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Navigation Electronic Map Data Total Revenue (2021-2032) & (USD Million)
Figure 4. World Navigation Electronic Map Data Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
Figure 5. World Navigation Electronic Map Data Revenue Market Share by Region (2021-2032), (by Headquarter Location)
Figure 6. United States Based Company Navigation Electronic Map Data Revenue (2021-2032) & (USD Million)
Figure 7. China Based Company Navigation Electronic Map Data Revenue (2021-2032) & (USD Million)
Figure 8. Europe Based Company Navigation Electronic Map Data Revenue (2021-2032) & (USD Million)
Figure 9. Japan Based Company Navigation Electronic Map Data Revenue (2021-2032) & (USD Million)
Figure 10. South Korea Based Company Navigation Electronic Map Data Revenue (2021-2032) & (USD Million)
Figure 11. ASEAN Based Company Navigation Electronic Map Data Revenue (2021-2032) & (USD Million)
Figure 12. India Based Company Navigation Electronic Map Data Revenue (2021-2032) & (USD Million)
Figure 13. Navigation Electronic Map Data Market Drivers
Figure 14. Factors Affecting Demand
Figure 15. World Navigation Electronic Map Data Consumption Value (2021-2032) & (USD Million)
Figure 16. World Navigation Electronic Map Data Consumption Value Market Share by Region (2021-2032)
Figure 17. United States Navigation Electronic Map Data Consumption Value (2021-2032) & (USD Million)
Figure 18. China Navigation Electronic Map Data Consumption Value (2021-2032) & (USD Million)
Figure 19. Europe Navigation Electronic Map Data Consumption Value (2021-2032) & (USD Million)

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Figure 20. Japan Navigation Electronic Map Data Consumption Value (2021-2032) & (USD Million)
Figure 21. South Korea Navigation Electronic Map Data Consumption Value (2021-2032) & (USD Million)
Figure 22. ASEAN Navigation Electronic Map Data Consumption Value (2021-2032) & (USD Million)
Figure 23. India Navigation Electronic Map Data Consumption Value (2021-2032) & (USD Million)
Figure 24. Producer Shipments of Navigation Electronic Map Data by Player Revenue ($MM) and Market Share (%): 2025
Figure 25. Global Four-firm Concentration Ratios (CR4) for Navigation Electronic Map Data Markets in 2025
Figure 26. Global Four-firm Concentration Ratios (CR8) for Navigation Electronic Map Data Markets in 2025
Figure 27. United States VS China: Navigation Electronic Map Data Revenue Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: Navigation Electronic Map Data Consumption Value Market Share Comparison (2021 & 2025 & 2032)
Figure 29. World Navigation Electronic Map Data Market Size by Type, (USD Million), 2021 & 2025 & 2032
Figure 30. World Navigation Electronic Map Data Market Size Market Share by Type in 2025
Figure 31. Standard Definition Navigation Map Data
Figure 32. Lane-Level Navigation Map Data
Figure 33. High-Definition Map Data
Figure 34. World Navigation Electronic Map Data Market Size Market Share by Type (2021-2032)
Figure 35. World Navigation Electronic Map Data Market Size by Spatial Representation, (USD Million), 2021 & 2025 & 2032
Figure 36. World Navigation Electronic Map Data Market Size Market Share by Spatial Representation in 2025
Figure 37. 2D and 2.5D Navigation Map Data
Figure 38. 3D Navigation Map Data
Figure 39. World Navigation Electronic Map Data Market Size Market Share by Spatial Representation (2021-2032)
Figure 40. World Navigation Electronic Map Data Market Size by Delivery Architecture, (USD Million), 2021 & 2025 & 2032
Figure 41. World Navigation Electronic Map Data Market Size Market Share by Delivery Architecture in 2025

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Figure 42. Embedded and Offline Map Data
Figure 43. Cloud-Based Online Map Data
Figure 44. Hybrid Map Data
Figure 45. World Navigation Electronic Map Data Market Size Market Share by Delivery Architecture (2021-2032)
Figure 46. World Navigation Electronic Map Data Market Size by Application, (USD Million), 2021 & 2025 & 2032
Figure 47. World Navigation Electronic Map Data Market Size Market Share by Application in 2025
Figure 48. In-Vehicle Navigation
Figure 49. Pedestrian and Accessible Navigation
Figure 50. Cycling and Micromobility Navigation
Figure 51. Public Transport and Multimodal Journey Planning
Figure 52. Commercial Vehicle and Fleet Navigation
Figure 53. ADAS and Automated Driving
Figure 54. Indoor, Parking and Venue Navigation
Figure 55. Map APIs and Location-Based Applications
Figure 56. Map APIs and Location-Based Applications
Figure 57. World Navigation Electronic Map Data Market Size Market Share by Application (2021-2032)
Figure 58. Navigation Electronic Map Data Industrial Chain
Figure 59. Methodology
Figure 60. Research Process and Data Source

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