

## **Israel Satellite Imagery Services - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2019 - 2029**

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### **Report description:**

The Israel satellite imagery services market size is expected to grow from USD 0.03 billion in the current year to USD 0.04 billion in the next five years at a CAGR of 8.63% during the forecast period.

#### Key Highlights

- Satellite imagery services have emerged as a critical component in infrastructure planning and development. The government uses the information and insights obtained from satellite imagery to support government decision-making, police, civil defense operations, and geographic information systems (GIS) in general. Due to high-resolution imaging these days, data captured through satellite imagery has become mandatory. All such government plans in the future are expected to be submitted based on Satellite Imagery data.
- The technology is being used for monitoring natural resources, such as vegetation, geological and soil analysis, land surface climatology, hydrology, land cover change, and the era of orthorectified digital elevation models (DEMs). Satellite imaging is helping farmers conduct crop forecasting and manage their agriculture production by utilizing multispectral imagery. The data generated by these methods is then used in GIS management systems to analyze and visualize agricultural environments and workflows. However, free tools, like Google Earth Pro, are helping regional farmers identify areas in fields requiring a closer analysis to decide if additional irrigation or fertilization of the crop is required.
- The fastest-developing positioning strategies are based on mobile positioning and satellite-based GPS. With more popular methods, like cell global identity (CGICTA) and improved observed time difference (E-OTD), the practical precision falls in the 50-1000 m range. These technologies create opportunities for the end users based on the accuracy needed for the location identification for specific applications. The oil and gas sector is growing its imagery usage for crew welfare and operations monitoring. The demand for LBS is growing with increasing activities in several industries, like oil and gas and mining. The oil and gas explorations and mining activities are carried out in remote locations, which requires an active communication channel. This

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necessity in end-user industries creates considerable opportunities for commercial satellite imaging providers.

-Remotely sensed satellite images and data include spectral, spatial, and temporal resolutions. Spectral statistics involve elements of remotely sensed image classification. Temporal resolution helps generate land cover maps (for environmental planning, land use change detection, and transportation planning) and data integration and analysis of urban areas using medium-resolution remote sensing imagery. This mode mainly focuses on the documentation of built-up areas and is used to differentiate between residential, commercial, and industrial zones.

-On the contrary, aerial imaging solution provides information, such as land cover maps, soil maps, vegetation maps, and geology maps, with the help of the spatial data captured from the higher-quality orthographic images. Moreover, aerial imaging is widely used for multiple applications among government departments, such as land and property information, environment studies, archaeology, disaster and emergency response management, etc. The images generated from aerial imaging are used to market the construction projects. These images can be utilized to create 3D BIM models and shared with stakeholders to showcase the viability of the projects.

-The COVID-19 pandemic sent shockwaves through every industry across the country. The pandemic significantly impacted the satellite imagery industry. Despite the negative monetary impact caused by the global lockdown, some industries fared better than others, notably construction and defense. The space and satellite industries were better positioned to weather the crisis. Multiple factors, including substantial government dependency and support for first responders, helped the industry during the crisis.

## Israel Satellite Imagery Services Market Trends

### Surveillance and Security is Expected to Hold Significant Share

- Satellite imagery and geographic information systems (GIS) allow security and law enforcement agencies to identify hot spots and other trends and patterns for crime mapping. Accurate detection of spatial concentrations of crime and timely mapping of crime locations help law enforcement identify the concentration of crimes in space and time, thus providing important information for crime reduction efforts. Such imagery helps provide efficiency and speed of analysis in this area of application by allowing analysts to overlay other datasets, such as census demographics and locations of stores, banks, and schools.

- Further, this is helping administrators in the security departments to understand the underlying causes of crime and devise strategies. These strategies include allocating police officers and dispatching them to emergencies. However, there is an increase in demand for advanced remote sensing techniques, which can provide color and panchromatic image processing services, along with the ability to sharpen the image with data fusion, enhancements, georeferencing, mosaicing, and color/grayscale balancing.

- Furthermore, various prototype systems are being developed to detect and view crime hotspots in a web environment, using thematic layers overlaid on background data. Hotspot mapping techniques, such as choropleth mapping, grid mapping, spatial ellipse mapping, and kernel density mapping, are being implemented to map crime hotspots, predict future crime locations, and optimize crime reduction efforts.

- Satellite imaging allows alarm and video surveillance systems to be connected to security centers via satellite. Alarm messages and live video images can both be sent at the same time. The video images can be used for surveillance or alarm verification. Emergency voice conversations and remote control of devices such as cameras were made possible through bidirectional audio and internet-like data channels. Space democratization is already taking place. The development of space and satellite technology, as well as the availability of this technology to countries, organizations, and individuals, has accelerated in the twenty-first century.

- According to National Public Diplomacy units (Israel), in 2022, the government of Israel recorded 5,326 terror attacks, resulting in 31 deaths and 415 injuries. In the first six months of 2023, there were 3,640 terror attacks on Israelis, resulting in 28 deaths and 362 injuries. Earth observation technologies are beneficial for monitoring land and sea borders in remote and isolated areas. It is possible to analyze vast sets of historical data and devise procedures to avoid border infractions at the regional and national

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levels using high-resolution satellite photos, aerial photography, and drones.

## Construction Segment is Expected to Drive the Market

- Construction progress can be monitored with regular satellite imagery snapshots of the site from above. Managing this process through organizing drone or aerial imagery can be both expensive and logistically challenging, particularly across various projects. Therefore, using satellite imagery across such projects can be a cost-effective solution. Additionally, monitoring many construction sites' progress can be costly and time-consuming. However, having an updated record of images from above can provide project managers with an easy and quick insight into the progress of their project, which they can use for internal reporting.
- The critical stakeholders engaged in large-scale construction projects, such as developers or project managers, are often based in separate locations in the country. Having access to up-to-date satellite imagery of these projects helps these stakeholders monitor their projects easily online. Satellite imagery can benefit various stages of the construction process, equipping critical stakeholders with valuable data sources to achieve informed planning and decision-making. Real estate developers use this imagery when searching or evaluating the site; engineers and architects use it to give their designs an up-to-date geographical context; and project managers consult images over time to monitor the build process.
- The average large construction firm has multiple projects running simultaneously in various countries. Satellite images provide an economical, accurate, and rapid means of obtaining a quick assessment for any significant construction or engineering project, e.g., airstrip, power plant, sewer, bridge, dam, industrial park, canal, and storm utilities. Satellite imaging is becoming incredibly important for large construction companies undertaking projects in the country. Before work begins, extensive surveys and explorations of potential building sites must be conducted. Companies need detailed images of their sites and surrounding areas regularly to understand the context better.
- The images generated from aerial imaging are used to market the construction projects. These images can be utilized to create 3D BIM models and shared with stakeholders to showcase the viability of the projects. The benefits of aerial imaging technology are resulting in the efficient management of energy and resources, which is restraining the market growth. Building Radar, a startup, developed an integrated solution for VHR satellite imagery focused on providing automated monitoring and detection services for the construction industry.
- According to the Israel Central Bureau of Statistics, In 2022, the number of dwellings in municipalities in Israel amounted to over 2.6 million. This was a moderate rise compared to the previous year (2021). The number of residences in localities in this Middle Eastern country gradually increased during the observed period. Furthermore, the advent of 3D visualization models is estimated to help solutions providers offer services like mapping buildings, updating and keeping cadastral databases current, changing detection, and virtual reality.

## Israel Satellite Imagery Services Industry Overview

The Israel satellite imagery services market exhibits moderate consolidation with key players such as ESRI, ImageSat International N.V. (iSi), Airbus Group Inc, L3 Harris Corporation, Ofek Aerial Photography, and several others. These companies consistently invest in strategic partnerships and service advancements to secure a significant market share. Noteworthy recent developments in this market include:

In March 2023, Esri unveiled a cutting-edge web-based mapping application named the Sentinel-2 Land Cover Explorer. This application is built on the ArcGIS API for JavaScript and is designed for the examination and analysis of land-cover changes. It combines Esri maps, image services, spatial analysis tools, and ESA Sentinel-2 imagery, all with a remarkable 10-meter resolution. Users can access this browser-based application without the need for additional software or login credentials.

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In January 2023, Israel launched the EROS-C3 (Earth Resources Observation Satellite), one of the most advanced observation satellites globally, into orbit around Earth. This USD 186 million satellite is already transmitting high-resolution images to its ground station. These images will be utilized for gathering intelligence pertinent to defense objectives while ensuring complete confidentiality and data security. The satellite was launched into orbit using SpaceX's Falcon 9 rocket, a reusable launch vehicle known for its capability to transport both individuals and payloads into space, subsequently returning to Earth.

Additional Benefits:

- The market estimate (ME) sheet in Excel format
- 3 months of analyst support

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