



The Israel Export & International Cooperation Institute
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ISRAEL HomeLand Security Industry

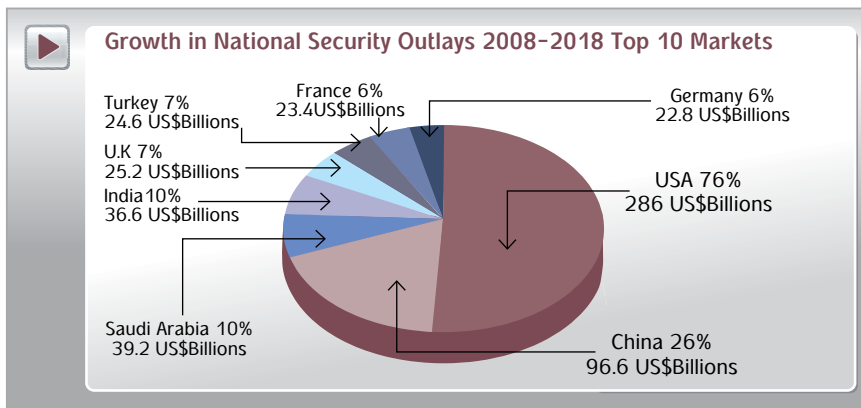


Homeland Security – Protecting Our Way of Life


Responding to the domestic, cross-border, and international terror threats that have emerged in the years since 9/11, the majority of the world's nations are now combating security risks by increasing their investment in homeland security. The protection of transportation, infrastructure, and strategic assets has, in particular, become a priority. Israeli technology, developed to safeguard Israel's national security, is both sophisticated and innovative, and among the best in the world in this regard.

Aviation security, one of the most visible aspects of homeland security operations, is attracting significant investments in infrastructure, operations, and support. Such systems support the extensive efforts that are currently being invested in securing modern cities, by integrating existing surveillance capabilities with highly sophisticated situational awareness, and the command and control centers that empower "safe city" initiatives. These systems also work in collaboration with law enforcement, traffic management, and general security procedures in urban domains. In addition, cutting-edge information technology supports national biometric identification systems such as e-passports, which are currently being issued by several European and Asian countries.

Homeland Security Market Growth



Forecasts International predicts that global HLS-HLD markets will grow by 81% over the next 10 years – from a sum total of \$140 billion in 2008, to approximately \$254 billion in 2018. This represents an increase in the share of global GDP from 0.25% in 2008 to approximately 0.36% by 2018. Market analysts predict that the global HLS-HLD market will continue its robust growth during the next decade, sustaining a growth rate of 7-7.5%. The leading markets representing the fastest growth are the




USA, China, India, and Turkey, driven by economic expansion amid growing threats of terrorism. Major European countries, including the United Kingdom, Germany, and France, are also dominant HLS-HLD markets.

Spearheading Homeland Security Technologies and Solutions

Positioned at the forefront of today's homeland security technology, Israel has initiated and implemented state-of-the-art homeland security solutions based on guidelines, experience, and expertise acquired over decades of combating internal security and terror threats. As a small country, Israel's existence depends on its vigilance and providing an effective, measured response to evolving domestic and foreign threats. These requirements have challenged Israel's defense and security industries since their establishment in the late 1940s. Over the years since then, innovative systems and solutions have been created in order to meet these goals. Today, these advanced, fully-developed and tested capabilities are also securing many of Israel's allies and partners throughout the world, employing unique operational concepts supported by effective training and support, and providing a high level of security while maintaining a high quality of life for ordinary citizens.

Israel's domestic security is largely self-reliant, depending mainly on home-grown defense and information technologies. Extending their leadership beyond Israel's borders, Israeli companies are positioned among the world's most creative innovators in almost every aspect of homeland security. Their fields of expertise include border protection and surveillance; virtual and physical perimeter protection systems for land-based and maritime sites; inspection systems for vehicle and cargo scanning at border crossings, airports, and seaports; countermeasures against potential terror attacks; IED/remote control bomb jammers; explosive ordnance disposal measures; ballistic armor protection; riot control solutions; non-lethal measures for law enforcement; and more.

Key Sectors

- Aviation, Maritime & Land Transportation Security
 - Safe Cities
 - Force Protection
 - CBRN Preparedness
 - Command, Control & Communications
 - Counter Terror & Law Enforcement
 - Crisis & Emergency Management
 - Critical Infrastructure Protection
 - IT Security & Anti-Fraud
- 



Aviation, Maritime & Land Transportation Security


By far the most dominant sector in terms of homeland security investments, safeguarding modern transportation has become a major issue for developed nations worldwide. Israel's expertise in this field includes active and passive protection for aircraft, surveillance, access control, virtual fences for perimeter security, and the protection of facilities and assets on land (airports, seaports, and transportation hubs). Israeli-made subsystems address specific threats, such as protecting aircraft from shoulder-launched missiles. Other elements focus on specific missions, from autonomous, unmanned surface vessels that secure sensitive maritime areas, to fixed and mobile satellite communications facilities that are operable onboard aircraft, trains, and ships, and employ both situational awareness and command and control.

Border Protection

Securing the homeland begins at the border. Israel's expertise in border security dates back to 1960, when its initial investments in border security, surveillance, route clearing, and patrols were made. Today, Israeli companies are at the forefront of border security, offering sophisticated electronic fencing and covert "virtual fences", backed by video motion detection capabilities, radar, and electro-optical-based surveillance sensors, and autonomous, unmanned aerial, ground and maritime patrol vehicles. Computerized information technology systems offer sophisticated tracking and screening of people, vehicles, and cargo, ensuring that open borders do not become a security risk.

Municipal Integrated Security Programs – "Safe Cities"

Video cameras and other elements of communications infrastructure that are already widely available throughout the modern city are becoming crucial tools for a new generation of information systems that empower law enforcement forces, first responders, and the emergency services, as well as official municipal authorities. Such systems, developed and deployed by several Israeli systems integrators, are deployed as part of modern "safe city" programs. These systems employ existing or dedicated command, control and communications networks, utilizing digital maps and geographical information systems (GIS) to establish a clear situational picture and assist authorities in emergency response situations. Advanced image processing is used for vehicle detection, human face recognition, and video motion detection requirements, enhancing surveillance, and adding new dimensions to safeguarding modern urban life. Know-how, technical and operational security expertise are also provided by consultant and service providers, formulating planning, training, and integration of complex security projects.

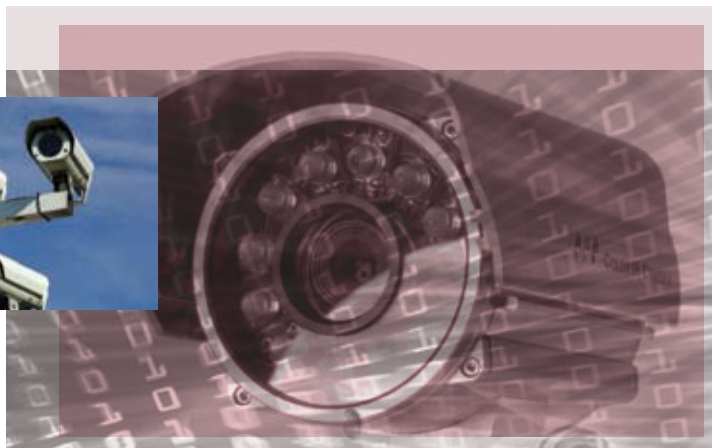


Infrastructure Protection

Infrastructure protection encompasses the wide range of capabilities offered by Israel's leading security providers. These comprise perimeter protection, by physical obstacles (fences) and/or virtual obstacles (electro-optical, radar, seismic or magnetic sensors), triggering alarms when an intrusion is detected. Aerostat-based sensors and unmanned patrol units employing autonomous, unmanned vehicles can also be integrated into the system. A video-motion detection technique is widely used to increase probability of detection while reducing false alarm rate. A wide range of access controls, tampering sensors, and sophisticated cyber guards protecting communications links are also employed to extend this protection to cyberspace.

CBRN Protection

Facing the threat of Chemical, Biological and Radiological (CBRN) attack from hostile nations as well as from terrorist organizations, Israel has invested a major effort in the development and deployment of CBRN monitoring, defense, and countermeasures. Israeli systems providing collective NBC filtration for individuals, vehicles, shelters, and medical and mobile facilities (including tents and shelters) are among the world's most sophisticated and widely used systems, supporting coalition forces operating in conflict areas. Radiological monitoring and detection systems are employed in detection portals, scanning containers, trucks, trains, and other vehicles, in search of illegal radioactive sources. Much smaller sensors are also employed on miniature unmanned aerial vehicles (mini-UAV), which are used to monitor cargo vessels at sea. Handheld sensors are used as portable monitoring devices, supporting emergency response. Israel also maintains a Center for Counter CBRN Terrorism, offering risk assessment, the development of guidelines, and training for emergency services and first responders.






Counter-Terrorism

Ranging from elusive special operations elements to common security and law enforcement agencies, anti-terror operations comprise many fields of activity, many of which are addressed by Israel's expertise. Israeli products developed for these applications include compact weapons, ammunition, breaching and assault measures, non-lethal weapons, specialized weapons integrating sights and sensors that facilitate rapid and effective target acquisition, discrimination of targets under difficult visibility (targets hiding around a corner, or behind obstacles or walls), sophisticated remotely controlled or autonomous robotic sensors that are capable of sensing movement, and transfer images or trigger alarms, etc. Special gear is provided to protect operators and combat teams, including highly configurable combat webbing, helmets, bulletproof vests and inserts that offer a very high level of protection, EOD suits, transportable shields, armored vehicles, and more.

International Cooperation

Operating in today's global economy, facing diverse and widespread threats, a single entity can rarely provide an all-inclusive solution based on in-house designs. Professional expertise is the key to successful implementation of new guidelines, technologies, training, and support, in which innovative technologies are inducted into service with maximum local support. Israeli products and services commonly employ an open approach to partnering with local or international providers, as prime contractors integrating complete systems or as subcontractors providing products, applications, and services to ensure that the client receives the most suitable, affordable, and usable solution. Israeli companies work closely with prime security integrators worldwide, including Boeing, DRS, Lockheed Martin, Northrop Grumman, SAIC, Siemens, Thales, and many others.

Israeli security systems are currently being implemented throughout the world, protecting key infrastructures including nuclear sites and power stations, airports, seaports, trains, federal sites, critical infrastructure facilities, correctional facilities, stadiums, amusement parks, private housing, private enterprises, and others.





Global Presence

The prominent position gained by Israel's security industries is reflected in a growing number of security projects that have been won by Israeli contractors in recent years. Israeli companies are involved in border control projects worldwide, particularly in the USA, Asia, and Latin America. Israeli-made physical protective and surveillance equipment is supporting peacekeeping operations and the global war on terror, in service with coalition forces operating worldwide. Moreover, Israeli security services and technologies are securing major sports, entertainment, and mega-public events



worldwide, including the Olympic Games in Atlanta and Athens, and the Pan-American games in Rio. Israeli security systems protect some of the major symbols of western civilization, including Buckingham Palace, the Vatican, and the Eiffel Tower. These systems also secure the largest aviation hubs in the world, including JFK (New York City), Heathrow (London), and Changi (Singapore) airports. In addition, police and counter-terror special units from countries around the globe are supported by Israel's security training providers.



The Israel Export & International Cooperation Institute





Founded in 1958 and supported by over 2,600 member firms, private sector bodies, and the Israeli government, the Israel Export & International Cooperation Institute promotes business relationships between Israeli exporters and overseas businesses and organizations.

Aerospace, Defense & HLS Department "Your Gateway to Israel's Security Industry"



The Aerospace, Defense & HLS Department of Israel's Export & International Cooperation Institute represents over 350 exporting companies in the homeland security arena. By providing a wide range of export-oriented services to Israeli companies, and complementary services to the international business community, the institute helps to build successful joint ventures, strategic alliances, and trade partnerships.

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