

AMERICA'S PARTNER ISRAEL

SAVING AMERICAN LIVES ON THE BATTLEFIELD



As a result of the strong friendship between the United States and Israel, the Israel Defense Forces (IDF) and the U.S. military share technologies and techniques that greatly benefit both nations.

“Protecting America means protecting Israel.”

— ASHTON CARTER
U.S. SECRETARY OF DEFENSE

U.S. RISKS, ISRAELI SOLUTIONS

“[America and Israel] have many interests in common in the region in this very dynamic time, and the more we can continue to engage each other, the better off we'll all be.”

— GENERAL MARTIN DEMPSEY
FORMER CHAIRMAN OF THE U.S. JOINT CHIEFS OF STAFF

RISK TO U.S. TROOPS: THREATENED AIR SUPERIORITY

American adversaries are developing new fighter aircraft technologies that threaten the U.S. military's air superiority. In a dynamic air-to-air combat environment, U.S. pilots need full situational awareness and the maximum available weapons capability to defeat enemy aircraft.

ISRAELI INNOVATION: HELMET MOUNTED DISPLAY SYSTEM

The U.S. Department of Defense has selected the Helmet Mounted Display System (HMDS) developed by Israeli company Elbit for all F-35 fighter jet pilots. The helmet, which is manufactured in the United States, displays flight and weapons data. It will also provide the pilot with full situational awareness and the ability to rotate the missiles' seeker by turning his or her head. The HMDS significantly enhances survivability during air-to-air engagements.

U.S. RISKS, ISRAELI SOLUTIONS

“ The emergency bandage has saved time and lives. It is well on its way to being one of the greatest assets emergency personnel can have.”

— BOB SCAVELLI
U.S. ARMY (RET.), SPEAKING ABOUT THE
USE OF THE ISRAELI BANDAGE ON THE BATTLEFIELD

RISK TO U.S. TROOPS: LIFE-THREATENING BATTLEFIELD INJURIES

Ninety percent of American battlefield deaths occur before the wounded reach field hospitals. Half of those fatalities are due to hemorrhaging.

ISRAELI INNOVATION: EMERGENCY BANDAGE

Now carried in every U.S. soldier's first aid kit, Israel's Emergency Bandage stems blood loss, prevents infection and allows non-medically trained soldiers to stabilize the wounded following an attack.

RISK TO U.S. TROOPS: REMOTE-CONTROLLED EXPLOSIVES

Remote-controlled explosive devices have caused more than 60 percent of U.S. casualties in Afghanistan and Iraq.

ISRAELI INNOVATION: ADVANCED DETECTION OF EXPLOSIVES

The U.S. military uses various Israeli technologies to detect remote-controlled explosive devices. For example, 1,200 U.S. Marine Corps vehicles are equipped with a system to jam the signals that detonate roadside bombs. In addition, some U.S. Army vehicles employ an Israeli device that uses radio frequencies to detect partially buried improvised explosive devices (IEDs).



U.S. RISKS, ISRAELI SOLUTIONS

“ A foundation of [the U.S.-Israel] relationship is the military-to-military relationship that we have enjoyed.”

— GENERAL JOSEPH DUNFORD JR.
CHAIRMAN OF THE U.S. JOINT CHIEFS OF STAFF

RISK TO U.S. TROOPS: **DANGEROUS FLYING CONDITIONS**

Precision strikes on high value targets in densely populated or fortified areas are technologically challenging and pose a high risk for even the most seasoned pilots.

ISRAELI INNOVATION: **LITENING TARGETING POD**

The Israeli-developed Litening Pod identifies targets with laser precision from high altitudes, placing the pilot in less danger, while reducing collateral damage on the ground. This system allowed American fighter jets to target Abu Musab al-Zarqawi, al-Qaida's former leader in Iraq, and enabled them to complete other complex missions.

RISK TO U.S. TROOPS: **SUICIDE ATTACKS**

During Operation Iraqi Freedom, more than 1,700 suicide bombing attacks targeted American and allied forces, as well as civilians.

ISRAELI INNOVATION: **CONCEALED WEAPONS DETECTOR**

Israel developed the Coral-SD, a portable device that detects explosives and other weapons concealed under the clothing of an enemy from a far distance.



U.S. RISKS, ISRAELI SOLUTIONS

RISK TO U.S. TROOPS: **BOOBY-TRAPPED HOUSES**

On many missions, U.S. forces apprehend enemy combatants and terrorists holed up in urban safe houses. Breaching the doors of these houses can be a deadly proposition when U.S. troops come face to face with armed insurgents.

ISRAELI INNOVATION: **DISTANCE DOOR-BREACHING SYSTEM**

The Israeli SIMON door-breaching system is capable of blasting down steel or wooden doors up to 130 feet away. The system saves lives by reducing soldiers' exposure to the enemy.



RISK TO U.S. TROOPS: **LETHAL URBAN WARFARE**

U.S. forces often fight in urban settings, exposing them to unpredictable risks.

ISRAELI INNOVATION: **ANTI-GUERRILLA WARFARE TECHNOLOGY**

A number of Israeli-developed weapons systems help U.S. forces fight more safely and effectively in urban warfare. The Corner Shot allows soldiers to see and attack enemy targets from around a corner. The Eye Ball R1, a remote camera the size of a baseball, can be tossed into an area, ahead of advancing soldiers, to give them time to assess risk before placing themselves in danger.



RISK TO U.S. TROOPS: **U.S. MILITARY BASE ATTACKS**

Terrorists launch countless attacks against American military bases overseas.

ISRAELI INNOVATION: **AUTOMATED DETECTION OF INTRUDERS**

The U.S. Army and Marines use Israeli technology to secure their vulnerable military bases. The SPIDER system automatically detects motion in a wide area. The system provides detailed real-time location information about enemy intruders, preventing deadly attacks and saving lives.

