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ISRAELI INNOVATIONS SAVE AMERICAN LIVES ON THE BATTLEFIELD

**U.S. RISKS, ISRAELI SOLUTIONS**

**RISK TO U.S. TROOPS: Booby-Trapped Safe Houses**

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**RISK TO U.S. TROOPS: U.S. Military Base Attacks**

Terrorists have launched countless attacks against American military bases in Afghanistan and Iraq.

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**RISK TO U.S. TROOPS: Armored Vehicles Attacked**

Since 2001, insurgents in Iraq and Afghanistand have killed hundreds of U.S. soldiers by targeting armored personnel carriers with explosive devices.

**ISRAELI INNOVATION: Bradley Reactive Armor Tiles**

Created by the IDF, the Bradley Reactive Armor Tiles overlay the vehicle's armor with embedded explosives that blast outward to suppress incoming fire. The tiles have protected thousands of U.S. troops in armored personnel carriers.
U.S. RISKS, ISRAELI SOLUTIONS

RISK TO U.S. TROOPS: Bleeding on the Battlefield
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
Carried in every Army 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.

— BOB SCAVELLI
U.S. Army (Ret.), speaking about the use of the Israeli bandage on the battlefield

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

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.

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 that can detect remote-controlled explosive devices. For example, 1,200 Marine Corps vehicles are equipped with a system to jam the signals that detonate roadside bombs. In addition, U.S. Army vehicles include a device that uses radio frequencies to detect partially buried improvised explosive devices (IEDs). The U.S. military also uses unmanned aerial vehicles that have sophisticated IED sensors.

RISK TO U.S. TROOPS: Dangerous Flying Conditions
Targeting enemies in densely populated civilian areas is challenging for even the most seasoned fighter pilots. Sandstorms, bad weather and darkness can make a pilot’s mission more difficult and riskier.

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. The system allows fighter planes to operate at night and in poor weather. This Israeli system helped American fighter jets target Abu Musab al-Zarqawi, al-Qaeda’s former leader in Iraq.

RISK TO U.S. TROOPS: Surveillance Under Fire
To be effective on the battlefield, the U.S. military needs to look deep inside enemy territory in order to collect intelligence and relay it to commanders on the ground. But with armed terrorists encamped in urban areas, reconnaissance is challenging.

ISRAELI INNOVATION: Unmanned Aerial Vehicles
Israel supplied the U.S. Army with its first unmanned aerial vehicle (UAV), a drone known as the Hunter. This pilotless remote controlled airplane collects real-time video intelligence and targets enemy combatants with laser-guided precision. Israeli UAV technology has reduced the number of piloted missions, leading to fewer American casualties.

[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.”

— MARTIN DEMPSEY
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