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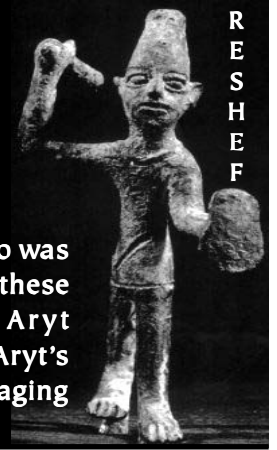
"Reshef in Action"

www.arytid.com

In the ancient Middle East, Reshef – armed with a club and shield – was the smiting god of war and plague.

Nowadays, Reshef Technologies makes fuzes for Israeli missiles, artillery, tanks, mortars and rockets.

Reshef's cofounder, Yoram Oron, who was its President and CEO, also served these roles for its parent company, Aryt Industries. Oron, who remains on Aryt's board, is also the founder and Managing Partner of Vertex Venture Capital.



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Investing in High-Tech Israeli Military Companies

With over US\$600 million in venture capital, this Israeli company says it "strives to be the strategic investor of choice for Israeli high tech start-up companies."

The Investors

Most of the corporations that have chosen VVC as the conduit to channel their investments into Israel-based or -linked high-tech industries are from Asia, and particularly Japan. The Canada Pension Plan holds a total of about \$288 million worth of shares in several VVC investors, or their parents and affiliates. (See table: "CPP Shares in VVC's Top Investors, 2011," p.51.)

The Founder and his Team

Yoram Oron, the founder and Managing Partner of VVC, is intimately tied to several high-tech, Israeli war industries. In 1984, he cofounded Reshef Technologies, which is appropriately named for the Canaanite god of war and plague. Reshef says it develops "next-generation innovative fuzes for guided missiles, mortars, tanks, artillery and rockets" and is a "trusted and qualified supplier to the Israel Defense Ministry ...and armed forces across the globe."

In 1989, Oron co-founded Geotek Communications, managed its Military Division and was its Vice President. Between 1992 and 1996, he was President and CEO of Reshef's parent company, Aryt Industries, and is still on its board of directors. Besides owning 90% of Reshef, Aryt owns 100% of Amcoram which makes electronics and optical systems for military subs and armoured fighting vehicles.

VVC's management team has several partners linked to Israel's military-industrial complex. Oron's daughter, Yifat Oron, became a Managing

Partner at VVC in 2002. Before that she worked for the Israeli Ministry of Defense in its Directorate of R&D as Assistant to the Director of Economic, Budget and Control Department.

VVC has had at least two veterans of Elisra Electronics, a wholly-owned subsidiary of Elbit, which is Israel's largest war industry. (See pp.28-29.)

- Irit Rapaport, Elisra's Director of Business Development, became a VVC Venture Partner in 2003.
- Moti Ben-Arie, who managed interdisciplinary R&D projects at Elisra, and was "an electronic engineer with the Israeli Navy," is now a Managing Partner at VVC.

The Canada Pension Plan has put \$288 million into firms that invest in Israeli high-tech military companies through the good offices of Vertex Venture Capital.

The Investments

Many of the high-tech Israeli firms in which VVC has invested are suppliers of military and/or intelligence products and services. Here are a few examples:

Actelis Networks

By using this US-Israeli firm's products, "military organizations can immediately deploy high-quality, high-bandwidth broadband links using the existing copper infrastructure" to "support voice, data and video applications." Its products are used on American military bases in Iraq, Germany and the US, and by Space & Naval Warfare Systems Command, KFORCE Kosovo, and NATO's Supreme HQ Allied Powers Europe. (Actelis was also financed by the Carlyle Group, see pp.14-15.)

Actimize

Although most of this Israeli firm's customers are financial institutions, some "security agencies" also use its technology. Founded in Israel by army veterans, the company says its products are "relevant to homeland security" because they can "identify suspected terrorists by searching a graphical database such as photos taken by surveillance cameras." Actimize was purchased in 2007 by an Israeli mass surveillance company, called NICE Systems, which sells its wares to military, police and intelligence agencies. (See table, "CPP Investments," p.53.)

ASOCS

This Israeli firm says it "has a record of successfully supporting ...projects and product ideas" for military use. George Gilder, an ASOCS investor, says the firm "has pioneered software-defined radio as a battlefield baseband technology for the RF [radio frequency] jungles of electronic warfare and jamming radar." When he invested a million dollars in ASOCS, Gilad Garon, the firm's cofounder/CEO described the "investment and endorsement by George Gilder as one of the most significant milestones in ASOCS history."

ASOCS very close association with Gilder is worth exploring. Gilder, who chairs the ASOCS Advisory Board, is a techno-utopian, Republican activist, who crafted himself as "America's number-one anti-feminist" in the 1970s. Modelling himself after Milton Friedman and Ayn Rand, this former speech writer for Richard Nixon championed the "moral case" for big business, and received the White House Award for Entrepreneurial Excellence from President Reagan.

Praised by Rush Limbaugh as “a true American genius,” Gilder opposes evolution and government welfare. Although he argues that “Native American culture” is “corrupt,” “unsuccessful” and “failed,” and that African cultures are “destructive,” “a



George Gilder, an ASOCS investor and chair of its Advisory Board, says Israel is a leader of scientific progress, civilization, freedom, morality and democracy.

terrible perversion” and “virtual social suicide,” he adores Israel. Saying that “[a]nti-Semitism is essentially hatred of capitalism and excellence,” Gilder sees Israel as “a

crucial source of invention, military intelligence and entrepreneurial creativity that may yet save the West.”

Cyber-Ark Software

This Israeli-American “information security company” was created by “leading military security experts,” like Alon Cohen who “handled computer security for Israel’s military.” Cyber-Ark co-founder, President/CEO, Udi Mokady, is “a veteran of a Military Intelligence unit” in Israel’s armed forces.

Besides serving 35% of the “Fortune 100” companies, Cyber-Ark says its “customer list also includes several Government and Military organizations.” Cyber-Ark has, it says, “become the best practice standard by many federal organizations, military and government agencies around the world.” Its products are said to “secure the most valuable assets of some of the largest military...and governmental enterprises in the world.”

Expand Networks

Having “deployed its 10,000th unit to the U.S. government,” this Israeli company is “the leading provider of WAN [Wide Area Network] Optimization appliances to US military and civilian agencies.” Its products speed up “military communications networks” and are an “integral part” of the US Joint Forces Command’s program to test a “portable command and control system...in a simulated war environment.”

CPP shares in VVC’s Top Investors, 2011

Top Investors in VVC

	Country	CPP Investment (Cdn\$)
Israel Discount Capital Markets and Investments (IDCMI) ¹	Israel	\$2,000,000
Fujitsu Ltd.	Japan	\$24,000,000
Hitachi Inc.	Japan	\$43,000,000
Nomura International (NI) ²	Japan	\$100,000,000
NTT ³	Japan	\$105,000,000
Seiko Instruments, Seiko Electric ⁴	Japan	\$8,000,000
		Total \$282,000,000

Notes:

1. CPP holds shares in the Israel Discount Bank (\$2M) which the parent company of IDCMI.
2. CPP holds shares in Nomura Holdings (\$91M), Nomura Real Estate Office Fund (\$6M), and Nomura Research Institute (\$3M). NI is a subsidiary of Nomura Holdings.
3. CPP holds shares in NTT Corp (\$60M), and its subsidiaries, NTT DoCoMo Inc. (\$36M), NTT Data Corp. (\$8M) and NTT Urban Development Corp (\$1M)
4. CPP holds shares in parent company, Seiko Epson Corp. (\$8M)

Sources:

Foreign Equities

www.cppib.ca/files/PDF/Foreign_PublicEquityHoldings_March312011.pdf

Investors

www.vertexvc.com/investors_israel.html

Oramir Semiconductor

Oramir is an Israeli company that develops laser-based cleaning technologies used in manufacturing semiconductor wafers. Oramir’s early investors included In-Q-Tel, an investment company that the CIA openly admits having set up in order to fund technologies deemed beneficial to US intelligence agencies. Another early investor was Texas Instruments. (See table, “CPP Investments,” p.53.)

Named after an Israeli soldier who was killed during the 1984 war with Lebanon, Oramir was launched in 1992 by three corporations that shared a keen interest in producing semiconductors for high-tech weapons systems:

Fairchild Corp.: This US military aerospace industry is perhaps best known for creating and manufacturing the A-10 “Warthog.” This US attack warplane was designed around the GAU-8 “Avenger” cannon – the heaviest rotary cannon ever mounted on an aircraft.

The Teuza Fund: This company, owned by Fairchild and formed in Israel in 1992, included such figures as

- Retired US General Harold Johnson. As a Commanding General of the US Air Force in the late 1960s, Johnson presided over the escalation of the Vietnam War. He was also Fairchild’s Senior Vice President.
- Moshe Arens, Israel’s former Minister of Defense, Minister of Foreign

Affairs, Ambassador to the US was also a Vice President of Israel Aircraft Industries. (See “State-owned Israeli War Industries,” pp.48-49.)

- Giora S. Meyuhas the Director of the First International Bank, formerly Israel’s Economic Minister to North America, Director at Israel’s National Electric Company, and the Israel Discount Bank.
- Dr. Zvi Meiri an. Advisor to Israel’s Defense Minister and Vice President was awarded two Israel Defense Prizes for developing major weapon systems for Israel’s military.

Rafael: This company is Israel’s third largest weapons industry. As such it requires a steady supply of high-quality semiconductors. (See “State-owned Israeli War Industries,” pp.48-49.)

Oramir was aquired in 2001 by Applied Materials Inc., a US company with manufacturing facilities in Israel. It produces “flexible, rechargeable, solid-state, thin-film lithium micro-batteries” for military, aerospace and other markets.

PowerDsine

Founded in Israel in 1995, PowerDsine’s products integrate the transfer of “both power and data over a single network cable” and thus eliminate the need to connect computer hardware to electrical outlets. PowerDsine says its customers include military, “homeland security” and other government agencies,

and that its “Power over Ethernet” products are “deployed in the security monitoring and surveillance arena.”

The company notes that its “main targets” include US “federal agencies active in...IP [Internet Protocol] surveillance markets” and highlights its “ability to offer continuous operation” of “network video cameras” as a “major attraction” to “surveillance camera users” in government.

When PowerDsine was acquired for US\$245 million by a US military-related company called Microsemi in 2006, Israel’s *Globes* business paper interviewed both companies’ top executives. James Peterson, Microsemi’s CEO, was excited by the “opportunities for integration between our power supply management components and existing military technologies in Israel.” To this, PowerDsine’s operations manager, Igal Rotem, “concurrs eagerly” saying: “There are companies in both the fields PowerDsine operates in – analog components and chips for the defense and aviation industries – which can contribute to our activity.”

Rotem, a PowerDsine cofounder and its former CEO, has special insights into the military applications of his company’s products because he “served as a Major in an elite R&D center within Israeli Defense Forces Intelligence Corps” (1981-1992). PowerDsine’s other co-founder, Ilan Atias, was also “in the IDF Intelligence Corps,” and “[i]n 1990, he received the Israel Defense Award from the President of the State of Israel.” Also, PowerDsine’s Vice President of R&D, David Pincu, “served in the technology unit of the IDF Intelligence Corps as senior project manager for large communications systems” (1981-1986).

PowerDsine cofounders Rotem and Atias are now the top executives of Microsemi’s Analog Mixed Signal Group. Microsemi is no stranger to serving the world’s largest weapons industries. As the firm proudly explains, its main market – comprising 35% of its sales in 2011 – is the “Defense & Security” sector. Microsemi’s top customers in this sector are six of world’s top ten war contractors: BAE Systems (#2), Northrop Grumman (#3), Boeing (#4), General Dynamics (#5), Raytheon (#6) and L3 Communications (#9).

PowerDsine uses this photo to promote its “Power over Ethernet” products for government surveillance cameras.



PowerDsine Product Catalog
www.microsemi.com

References

Vertex Venture Capital
www.vertexvc.com

“Vertex Venture Capital’s Yoram Oron Elected IVA Chairman,” *Globes*, Jan. 6, 2005
www.vertexvc.com/news_inTheNewsShow.asp?id=80&year=2005

Yoram Oron
people.forbes.com/profile/yoram-oron/84967

Israel Venture
www.spoke.com/info/p7Y6Vtu/IsraelVenture

Moty Ben-Arie
www.vertexvc.com/teamMember.asp?id=253

Irit Rapaport joins Vertex as venture partner, February 26, 2003.
www.vertexvc.com/pressShow.asp?id=18&year=2003

Yifat Oron
www.vertexvc.com/teamMember.asp?id=260

Reshef Technologies
www.arytltd.com/index.aspx

“Actimize: Minimizing business risk,” *Globes*, September 20, 2006.
www.globes.co.il/serveen/globes/docview.asp?did=1000134612

Dedicated Networks: Military
www.actelis.com/solutions/sol-military.php

Actelis’ MetaLIGHT Solution Supports Operational and Tactical Deployments
www.actelis.com/company/pr/pressarticle.php?article=05_2005-technet.shtml

Defense
www.asocstech.com/Defense.html

Chris Barth, “Gilder Buys into ‘Electronic Battleground Pioneer’ ASOCS,” *Forbes*, Feb. 8, 2011.
www.forbes.com/sites/chrisbarth/2011/02/08/gilder-buys-into-electronic-battleground-pioneer-asocs/

George Gilder
en.wikipedia.org/wiki/George_Gilder

Company Fact Sheet
www.broadcom.com/company/factsheet.php

Project HuSIMS
www.broadcom.com/docs/general/Project_HuSIMS.pdf

Press Releases Archive and computer engineers, May 6, 2002.
www.cyber-ark.com/news-events/pr_20020506.asp

Board of Directors
www.cyber-ark.com/about-cyber-ark-software/board.asp

Clients
www.cyber-ark.com/digital-vault-clients/index.asp

Industries Served, Government
www.cyber-ark.com/identity-access-management-solutions/government.asp

Investor’s Business Daily®
www.cyber-ark.com/pdf/cbweb.pdf

SecurIT and Cyber-Ark Partner to Prevent Insider Threats and Protect Privileged Identities, September 10, 2009.
www.cyber-ark.com/news-events/pr_20090914.asp

Enabling Mobile Military Communications
www.expand.com/Newsletters/newCollateral-registration.aspx?promotion=SAT%20MILITARY

Expand Accelerators are an Integral Part of Joint Forces Command’s Millennium Challenge 02
www.expand.com/news-events/release.aspx?pressID=f9f859f8-e4c7-4286-8aa9-282bf4536fb0

Oramir
en.wikipedia.org/wiki/Oramir

Rick E. Yannuzzi, “In-Q-Tel: A New Partnership Between the CIA and the Private Sector,” *Defense Intelligence Journal*, 2000.
<https://www.cia.gov/library/publications/additional-publications/in-q-tel/index.html>

History
www.teuza.co.il/history.html

Fairchild launches Oramir, *Israel Business Today*, October 2, 1992.
www.highbeam.com/doc/1G1-12813651.html

Infinite Power Solutions Raises \$34.7 Million for Building Thin-Film Battery Manufacturing Facilities, September 6, 2006.
www.appliedmaterials.com/sites/default/files/IPS_Raises_34.7M_9-6-06.pdf

“Infinite Power Solutions Raises \$20.0M In Series C Financing,” August 17, 2010.
www.appliedmaterials.com/news/articles/infinite-power-solutions-raises-200m-series-c-financing

Westcon Group Adds PowerDsine to its GSA Dealer Program, Strengthening Federal Offering,” August 12, 2003.
web.archive.org/web/http://www.powerdsine.com/news/prs/pr_120803_Westcon.html

The Source, January 2003.
www.powerdsine.com/News/TheSource/NewsLetter04.html

“Microsemi buys PowerDsine for \$245m in cash and shares,” *Globes*, October 24, 2006.
www.globes.co.il/serveen/globes/docview.asp?did=1000145258

Shmulik Shelah, “Israel is the first place I’d look for an opportunity to expand,” *Globes*, Jan. 8, 2008.
www.globes.co.il/serveen/globes/docview.asp?did=1000296311

Igal Rotem
www.mit-forum.org.il/events/recent-events/273-igal-rotem

Executives Bios
web.archive.org/web/http://www.powerdsine.com/AboutUs/ExecutivesBios.asp

MSCC Corporate Presentation
files.shareholder.com/downloads/MSCC/1652776736/x488833/4106276B-9372-457F-890E-23A9FFD80D7F/MSCC_Corporate_Presentation_11-29-11.pdf