

Israel Innovation Authority Americas Operations

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Americas Operations at the Israel Innovation Authority

Established 2013 to explore, promote and facilitate R&D&I collaboration in the Americas



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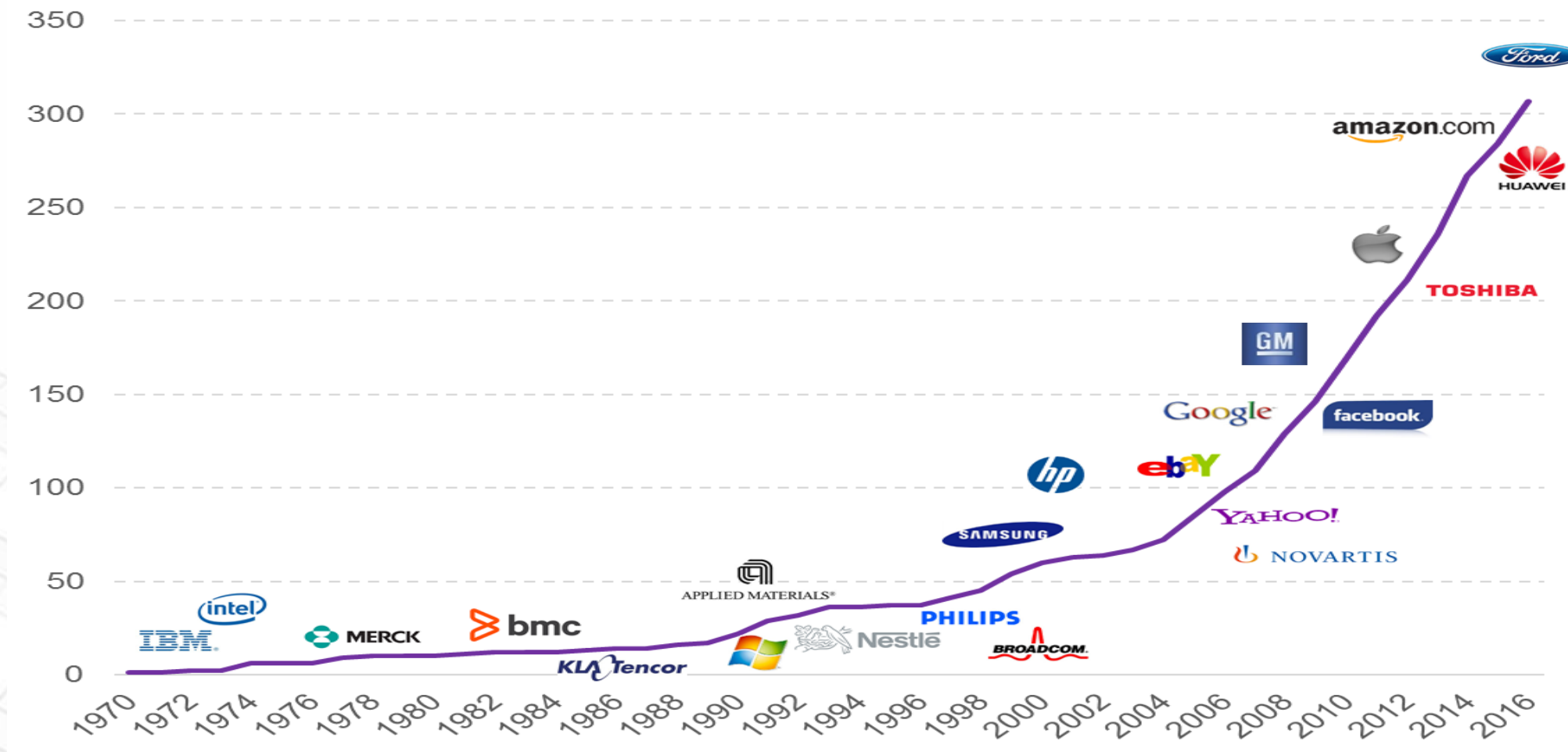
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The Americas Operations



➤ Multi-National Corporations in Israel (mostly American)

Number of MNCs active in Israel



Source: OECD, Entrepreneurship at a glance, 2016

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Intel R&D Israel



- Since 1974- first Intel's non-US R&D center
- 4 R&D centers and 2 fabrication plants
- Directly employs 10,000, indirectly X4
- In certain years- 40%-50% of revenues
- Followed by all major SC companies: Broadcom, Qualcomm, TI, KLA, Tower, Applied Materials, Samsung, NVidia...
- Acquisition of Mobileye (\$15B)

International Activities Raise Israeli Company Productivity by 43%

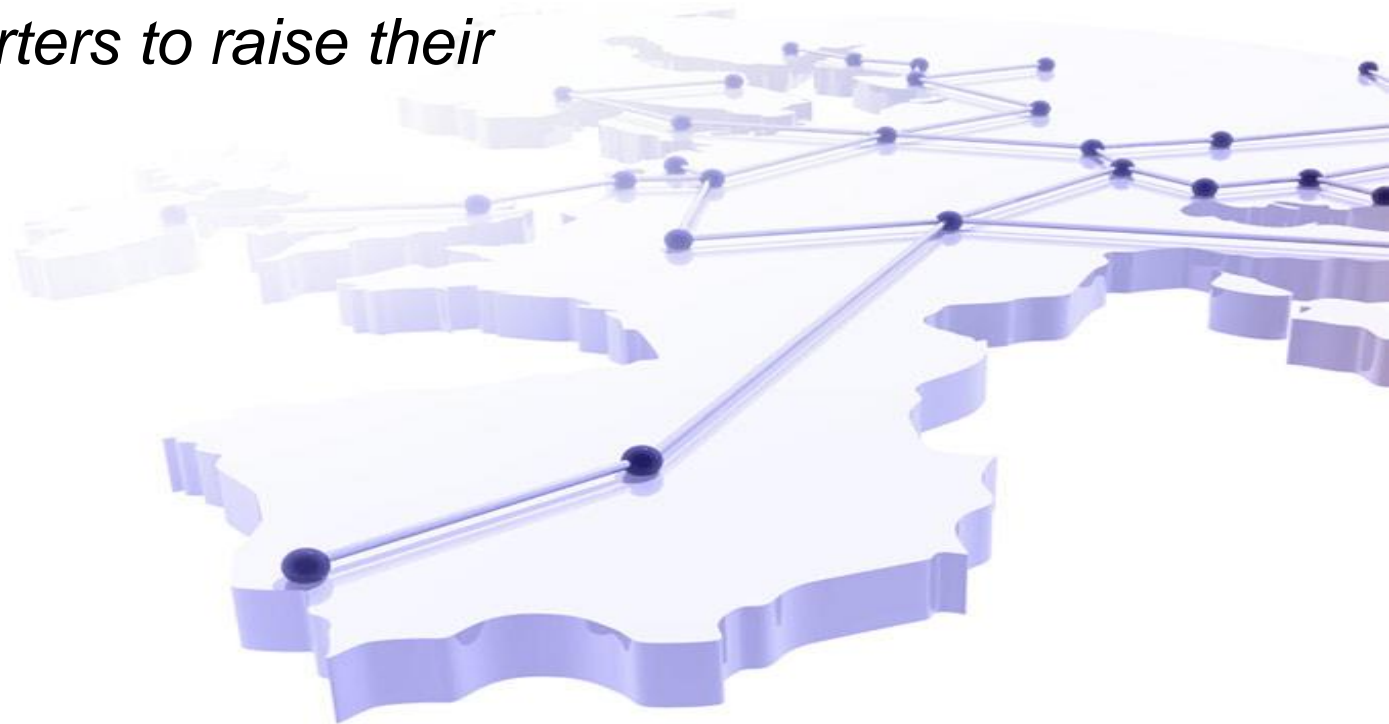
The research suggests two possible reasons for these results:

- **Exposure** of exporting companies to new technological developments globally enables them to **adopt innovative technologies**, enhancing their output
- **Global competition** pushes exporters to raise their productivity

(Source: Bank of Israel, 2011)



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Impact assessment of international R&D collaboration (EUREKA Program)

- **Main Findings:** **Sales and employment** for a Eureka participating company are on average **30% higher** than in “twin company” (non Eureka participant) .
- About 2/3 of the individual-firm effects are positive, meaning that **2/3 of the firms** participating in Eureka **exhibit a significant increase in sales and employment**, while 1/3 exhibit a decrease relative to their “Twins”.
- Source: *Applied Economics Ltd, for the Israeli EUREKA Chairmanship 2010-2011*



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THE WALL STREET JOURNAL.

U.S. & Israel Join Forces to Protect Astronauts
From Radiation...

**Tel Aviv startup and Lockheed Martin to test
potentially life-saving vests on Orion capsule**

StemRad Ltd and Lockheed Martin Space Systems are
in advanced stages of developing of a radiation shield
vest for astronauts on Orion deep-space missions



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Project Example



Desalitech pioneered a brand new approach to reverse osmosis desalination by implicating closed circuit desalination based on hydrostatic principles



GE (Global Research) – one of the world's most diversified industrial research labs, providing innovative technology for all of GE's businesses

Project title: Integrated Low-Cost RO Systems for Seawater Desalination

Joint development product: By combining the innovative closed-circuit reverse osmosis desalination scheme of Desalitech with next-generation capabilities developed by GE, the companies will productize an integrated solution that will dramatically reduce the capital expenditures and the energy consumption of saltwater desalination plants.



Project Example



ACE (Applied Cognitive Engineering) develops software based "Brain-Gyms" to improve the performance of trainees in targeted tasks



USA Hockey, Inc. is the National Governing Body for the sport of ice hockey in the United States.

Project title:
The Hockey IntelliGym



Joint development product: A software-based program that allows players to develop perception, short-term memory focus and decision-making skills, as well as enables coaches to fine-tune programs and follow up on each player's progress.



The Hockey **IntelliGym**™
think faster. play better.



Israel-Canada Cooperation Offerings

- **CIIRDF**- Bilateral innovation foundation- generated > 100 partnerships
- **Canada Israel Energy Cooperation - NRCan and Canadian Gas Association**- Cyber Protection for critical infrastructure
- **NRC-IRAP** – through EUREKA
- **Smart Mobility Testbed Program (Ontario-OCE)**
- **Quebec-Israel Innovation Partnership (MESI)**
- **Baycrest**: validation of treatments for the aging population
- **Discussing new programs with Superclusters (ISED)**

Hip-Hope active hip protector

- **smart device** worn as a belt equipped with **advanced sensors** along with a proprietary **algorithm for accurate fall detection**.
- identifies when the user is **undergoing a fall** and instantly **deploy airbags** to protect the user reducing the chances of a hip fracture.
- The 1-kilo (2.2-pound) device even has a **built-in emergency call button** that the user can activate in any situation of distress.



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US-Israel Bilateral Innovation Platforms

- BIRD Foundation, BIRD Energy (DOE), First Responders Solutions
- Developing engagements with national labs and federal R&D agencies (DOE-COE, Cyber, Army-MTEC, NIH, NSF, BARD/NIFA...)
- Israel & US States joint solicitations for parallel funding of projects
- U.S. Department of Commerce- Annual Innovation Forum



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US States Partners



California- CIRM, UC

Colorado- ICI Fund

Florida- Space Florida

Georgia- Georgia Department of Economic Development / Southern Company

Maryland- Maryland – Israel development center LS Bootcamp

Massachusetts- Massachusetts Clean Energy Center, Life Sciences Center, PULSE@MassChallenge

Nevada- Waterstart

New York- New York State Energy Research and Development Authority (NYSERDA), SUNY- Center for Nano Scale Science and Engineering (CNSE), Stony Brook University, Northwell Health

Pennsylvania – Jefferson Health

South Carolina- ATI (formerly SCRA)

Wisconsin- The Water Council



Brainstorm Awarded \$16 Million Non-Dilutive Grant from CIRM in Support of Phase 3 Clinical Trial of NurOwn® in ALS

HACKENSACK, N.J. and PETACH TIKVA, Israel, July 21, 2017 /PRNewswire/ -- Brainstorm Cell Therapeutics Inc. (NASDAQ: BCLI), a leading developer of adult stem cell technologies for neurodegenerative diseases, today announced that the California Institute for Regenerative Medicine (CIRM) has awarded Brainstorm a grant of \$16 million to support the pivotal Phase 3 study of NurOwn®, for the treatment of amyotrophic lateral sclerosis (ALS).

Acuerdos de Cooperación en América Latina



Argentina- Acuerdo Bilateral (partner **MINCYT**, **Produccion**, **Bolsa de Comercio de Rosario**)



Brasil-Acuerdo Bilateral (partner **MDIC**), in discussions with **FINEP** and **EMBRAPII**

Sao Paulo- Acuerdo Bilateral (partner **FAPESP**)



Chile (**CORFO**)



Colombia (**Ruta N**)



Mexico- Acuerdo Bilateral (partner **CONACyT**)



Uruguay- Acuerdo Bilateral (partner **ANII**)



Memorandum de Entendimiento con el BID incluyendo cualquier actividad patrocinada por el BID en la región



Innovation Visa for Foreign Entrepreneurs

- Program enables foreign entrepreneurs develop their innovative technology project in Israel and **receive a work permit visa**.
- Entrepreneurs are granted with a visa of up to **24 months**, and will be hosted by **IIA approved soft-landing organizations**, that offer smart exposure to Israel's Eco-System, work space, technological infrastructure, business and logistical support.
- If the project turns into a company, a foreign entrepreneur can file a request to receive **funding** from the Innovation Authority
- upon approval, receive an expert visa to **work in the company for a period of up to 5 years**.

➤ Case Study: Potenciar (Ministerio de Producción – Argentina)

Goal

Accelerating high potential Argentinian Midsize to Large Companies into the global market through innovation and technological upgrade

Partnership with the Israel Innovation Authority

Adaptation and integration of Israeli technologies into the advanced manufacturing and traditional industries of Argentina

Funding

Grant support to the Argentinian company by the *Potenciar* program, and to the Israeli company through the *Product Adaptation* program

20 Argentinian companies participating in this program in 2018

Our goal: 4 collaborative projects in the first year



Case Study:

Space Florida-Israel Innovation Partnership



- The signing of the Israel- Florida MOU in 2013, enabled Space Florida and the Authority to established this partnership.
- The goal is to promote joint Innovation projects in Aerospace and related research areas between Israeli and Florida companies.
- An annual \$2 M budget is allocated to provide funding for approved projects.
- Universities/Research Centers can participate as subcontractors
- Yielded already 20 partnerships

Canada Case Study: Ontario-Israel Testbed

- 1st year in Cyber&Fintech, continues in Smart Mobility
- Connect Cybersecurity-Fintech SME's in both countries with large FI's incl. **Bank of Montreal (BMO), Canadian Imperial Bank of Commerce (CIBC), Royal Bank of Canada (RBC), Scotiabank, and Toronto-Dominion Bank (TD)**
- Co-develop and validate in real testbed environment solutions that address the needs of these multinational FI's.
- Committed budget of \$5M (each side) over 5 years to support this initiative for a total of \$10M
- Governments provide R&D grants to SME's, FI's share challenges, provide in-kind support and validation



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Thank You

Gracias

Obrigado

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