ISRAEL and ITALY
COOPERATION IN HORIZON FRAMEWORK PROGRAMS
Best practices and future opportunities
Innovation in Israel and the Israel Innovation Authority
Israeli High-Tech Industry Breaks New Records

- 47% of Israeli exports*
- $17.8 B A record in total capital raising**
- $300 B The market value of Israeli companies traded in the USA
- 72 Unicorns***

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*Central Bureau of Statistics 2020
** In the first 3 quarters of 2021 – according to the 3Q,21 IVC Report
*** As of October 2021 [https://www.techaviv.com/unicorns](https://www.techaviv.com/unicorns)
Israel is a strong innovator - #1 in Research & Development Expenditure

National expenditure on civilian R&D as a percentage of GDP

Source: OECD, 2019
Over 380 MNC’s with active R&D centers

Responsible for 50% of the industrial High-Tech output
Collaborative Innovation Ecosystem

GOVERNMENT

SECURITY

ACADEMIA

MULTINATIONAL CORPORATIONS

PRIVATE FUNDING

GROWTH COMPANIES

START-UPS
The Israel Innovation Authority takes the stage

The Mission

Promoting technological innovation as a leverage for inclusive and sustainable economic growth

1. Investing in the R&D of innovative technological products
2. Gearing up for future technologies
3. Enabling Activities – removing barriers, catalyst for innovative regulation, human capital
Israeli Innovation Authority in a nutshell

- Entrepreneurship & Startups
- Innovative Regulation
- Industry-Academia Cooperation and Research Infrastructure
- Disrupting non Hi-Tech sectors
- Competitive R&D in Growth Firms
- Strategic International Collaboration
The Israel Innovation Authority in a nutshell

4461 applications in 2020 (about 50% approved)

US$500M annual budget + 150M International

140 employees & 180 technological evaluators

Bottom-up approach & support of all technologies

Supporting From a single entrepreneur to large corp.

Conditional loan Repaying royalties Matching funds
IIA’s International Collaborations Platform

North America
- US-BIRD (Foundation) + States, DOE, Commerce
- Canada-CIIRDF (Foundation) + Provinces
  - South Carolina
  - California
  - Florida
  - New York
  - Massachusetts
  - Maryland
  - Virginia
  - Wisconsin
  - Oregon
  - Colorado
  - Illinois
  - Michigan
  - Nevada

Latin America
- Inter-American Development Bank
- Argentina
- Brazil: Federal + Sao Paulo
- Uruguay
- Mexico
- Colombia
- Chile

Europe
- Horizon Europe
  - EUREKA
  - France
  - Russia
  - Italy
  - Germany
  - Greece
  - Denmark
  - Hungary
  - Turkey
  - Portugal
  - Finland
  - Sweden
  - The Netherlands
  - Czech Republic
  - Spain
  - Belgium
  - Poland
  - Romania

China
- Jiangsu
- MOST
- Shanghai
- Shenzhen
- Shandong
- Guangdong
- Zhejiang
- Hong Kong

Korea
- KORIL-RDF (Foundation)

India
- i4RD (Federal)
- KIRD (Karnataka)

Singapore
- SIIRD (Foundation)

Australia
- Victoria
- New South Wales

>65 Bilateral R&D Agreements Worldwide
International Collaboration Tools

- Roadshows
- Delegations
- B2B events
- Partner matching
- Seminars

Transfer of Knowledge
Competitive scheme for Bilateral R&D & Pilots
Bilateral Funds
Horizon Europe
Horizon Europe operated by ISERD (Israel Europe R&I Directorate)

- **ISERD** aims at maximizing the benefits of Israel’s participation in the Framework Programmes (FP)

- An **interface** between the Israeli government and the European Union
- **Encouraging** Israeli entities to participate
- **Representing** Israel in the programme committees of the EC
- **National Contact Point (NCP)** for the different themes
- **Information dissemination**
- **Assistance** throughout project submission and management
Israel joined the EU FP’s in 1996 – 26 years of successful association
Italy – The 5th largest participation in H2020

- ~7,874 projects
- ~5.59 billion euros
- ~8.3% of the total program budget
- 57% Academic Participation
- 37% Private Sector

* Source of Data is the Eu Dashboard, processed by ISERD
Israel is the 12th largest participator in H2020

- 1,666 projects
- ~1.27 billion euros received in grants
- Strong in ERC and EIC - 65% of the participation; 35% is Collaborative
- 64% Academic participation; 34% Private Sector
- ~2% of the total program budget

* Source of Data is the Eu Dashboard, processed by ISERD
Israel-Italy Collaboration in H2020

- Among Italy's cooperation with AC countries, Israel is in second place after Switzerland.
- Collaborating in 534 joint projects.
- A total of 1659 Italian participants and 719 Israeli.
- A total amount of grants is 582.7M euros for Italian participants and 239.9M euros for Israeli.

*Source of Data is the Eu Dashboard, processed by ISERD*
Israel-Italy Collaboration by Thematic areas

- ICT and Security
- Health
- Smart and green transport
- Food security, sustainable agriculture
- Research infrastructures

* Source of Data is the Eu Dashboard, processed by ISERD
Italy – A strong coordinator

118 joint projects led by Italian coordinators

53% RIA, 30% IA, 18% CSA

COORDINATION BY THEMATIC AREAS

* Source of Data is the Eu Dashboard, processed by ISERD
## Israel-Italy Collaboration by Top Italian entities – Academia + MNC’s

<table>
<thead>
<tr>
<th>Organisation</th>
<th>Net EU Contribution</th>
<th>Participation</th>
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<tbody>
<tr>
<td>CONSIGLIO NAZIONALE DELLE RICERCHE</td>
<td>45,128,085</td>
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<td>STMICROELECTRONICS SRL</td>
<td>30,508,228</td>
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<td>FONDAZIONE ISTITUTO ITALIANO DI TECNOLOGIA</td>
<td>23,341,072</td>
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<td>LEONARDO - SOCIETA PER AZIONI</td>
<td>21,979,686</td>
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<td>POLITECNICO DI MILANO</td>
<td>12,939,952</td>
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<td>CINECA CONSORZIO INTERUNIVERSITARIO</td>
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<td>MINISTERO DELLA SALUTE</td>
<td>10,493,900</td>
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<td>UNIVERSITA DEGLI STUDI DI MILANO</td>
<td>10,409,619</td>
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<td>ALMA MATER STUDIORUM - UNIVERSITA DI BOLOGNA</td>
<td>8,623,326</td>
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<td>CENTRO RICERCHE FIAT SCPA</td>
<td>8,331,815</td>
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<td>UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA</td>
<td>8,016,672</td>
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* Source of Data is the Eu Dashboard, processed by ISERD
Israel-Italy Collaboration by Top Israeli entities – Led by Academia + MNC’s

<table>
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<tr>
<th>Organisation</th>
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<th>Participation</th>
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<tbody>
<tr>
<td>IBM ISRAEL - SCIENCE AND TECHNOLOGY LTD</td>
<td>29,666,845</td>
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<tr>
<td>THE HEBREW UNIVERSITY OF JERUSALEM</td>
<td>11,263,976</td>
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<td>BEN-GURION UNIVERSITY OF THE NEGEV</td>
<td>11,246,456</td>
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<td>TEL AVIV UNIVERSITY</td>
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<td>MELLANOX TECHNOLOGIES LTD - MLNX</td>
<td>9,168,916</td>
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<td>TECHNION - ISRAEL INSTITUTE OF TECHNOLOGY</td>
<td>8,908,841</td>
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<td>ISRAEL AEROSPACE INDUSTRIES LTD.</td>
<td>8,522,098</td>
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<td>WEIZMANN INSTITUTE OF SCIENCE</td>
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<td>BAR ILAN UNIVERSITY</td>
<td>6,818,396</td>
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<td>PLURISTEM LTD</td>
<td>5,639,825</td>
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* Source of Data is the Eu Dashboard, processed by ISERD
Let's find ways to increase our collaboration even further