R&D and Innovation as a Growth Engine – The Israeli Model and the Role of the OCS

Business Incubator
High School of Economics
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Some Facts About Our World

- Forecast for 2050: 9.4 billion people
- 900 million people are hungry
- 33 million people are infected with HIV
- 1.1 billion people do not have access to clean water
- 5.1 billion people do not have access to internet
- 2.75 billion are not using cell phones
- Barrel of oil $40 → $147 → $100
Expenditure on Civilian R&D as a percent of the GDP in Israel and in OECD Countries 2010

Source: OECD and Israel CBS
Scientists & Technicians per 10,000 Workers

- Israel: 140
- US: 83
- Japan: 80
- Germany: 60
- Canada: 55
- Switzerland: 55
- Taiwan: 45
- UK: 43
- Ireland: 33
- Italy: 33
- Singapore: 32
- Spain: 25
Patents (2010)

- Israel ranked #1 in Medical Device patents per capita
- Israel ranked #5 in number of patents per capita

Source: The United States Patent and Trademark Office (June 2010)
Activities of the OCS

Activities in Israel

Support of Research Institutes
Support of Traditional Industry
Technological Incubators
R&D Centers in Universities
Magnet Magneton, Nofar
R&D Fund

International Activities

Chief Scientist

Tnufa
Seed Fund
Matimop
Bi-National Funds
Bi-National Agreements
Eureka
EU R&D Program FP-7
Global Enterprise R&D Cooperation Framework
US-Israel Science & Technology Commission

Evaluating
OCS Instruments Along The Value Chain

- **Pre-Seed**
  - Tnufa
  - Technological Incubators
  - Nofar

- **Generic R&D**
  - Magnet
  - Magneton
  - Infrastructure for R&D

- **Competitive R&D**
  - Industrial R&D
  - Seed Fund
  - Support of Traditional Industry

- **Cooperative R&D**
  - Bi-national Funds
  - Bi-national Agreements
  - EUREKA!
  - Galileo
  - Global Enterprises R&D Cooperation

- **Applied Academic Research** → **Basic R&D** → **Market Proximity**

- **International**
  - Support of Research Institutes

- **National**
  - ISERD (Europe FP)
Strategy:

Quality of Service to the Customer

Academia ↔ Industry

International Activities

Preferred Sectors

BUDGET
International Cooperation

Foundations:

BIRDF - with U.S.A.
USISTC/F
SIIRD - with Singapore
CIIRDF - with Canada
KORIL-RDF - With S. Korea
BRITECH—with the UK
International Cooperation

Bi-National Support Agreements:

France, Belgium, China, Finland, Germany, Holland, Uruguay, Argentina, Greece, Maryland, Victoria, Ontario, France, Italy, India, Taiwan, Portugal, Hungary, Sweden, Turkey, Brazil, Denmark.
Future Cooperation in R&D
Israel and Russia

Options:

• Bi-National Fund

• Bi-National Support Agreement:
  • Agency (such as MATIMOP) to Agency (such as RUSNANO and Skolkovo) or
  • Government to Government

• Within Multilateral platforms such as Eureka
No. Of Applications: 
~2000 Projects

Requested Budget: 
~6.7 Billion NIS

Total Grants: 
~1.75 Billion NIS
Excellence is a Key Success Factor