



Israel Innovation Authority (IIA) - Our Mission

Invests over \$500M annually 30% of the investments are in life sciences

Investing in innovation to promote sustainable and inclusive growth



Strengthening innovation ecosystem



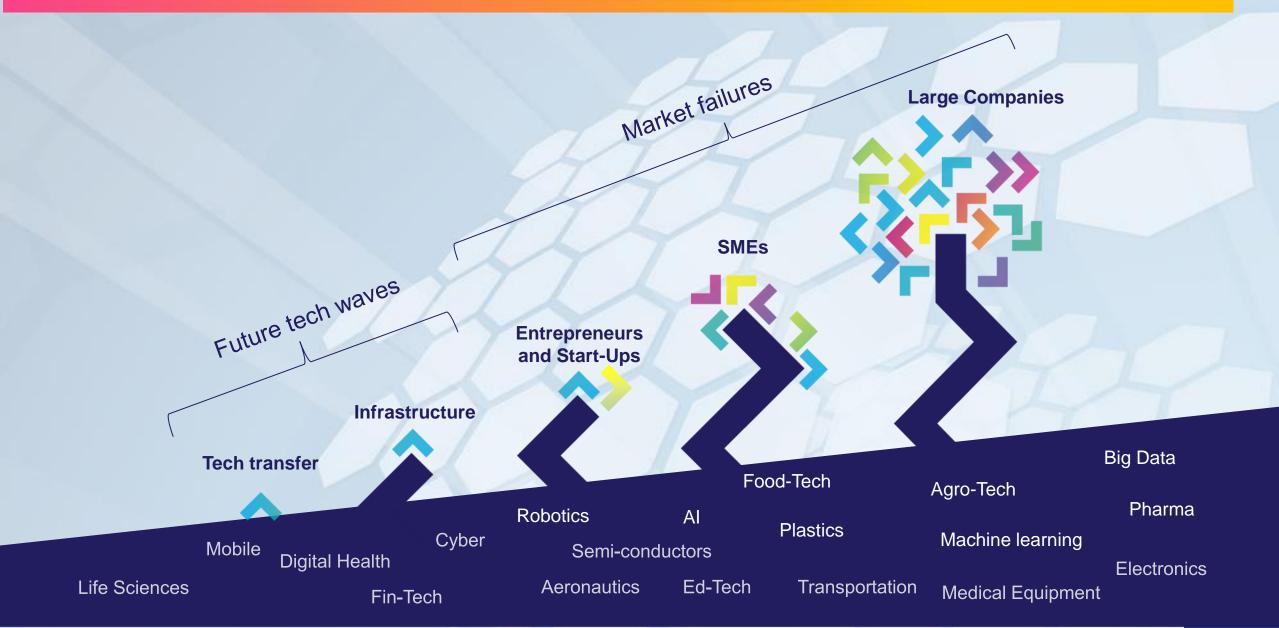
Enhancing economic impact



Enabling emerging disruptive technologies



Complementing Private Funding



Principles of Our Innovation Policy



No Equity



Conditional Loans



Matching

Enabling the market Not leading it





2018 Numbers



\$ 500 million

Total Funding Budget

1500

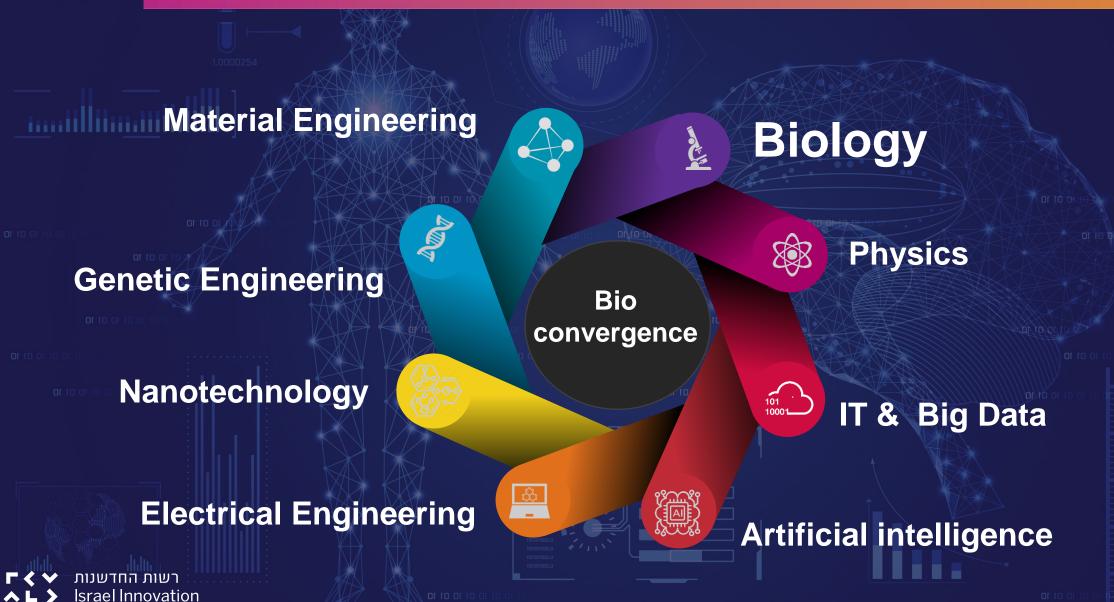
projects

\$ 130 million

For "New Clients"

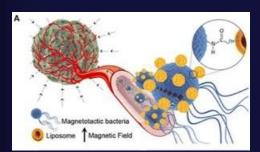
רשות החדשנות Israel Innovation ▲ L > Authority < → ¬

Bio-convergence - integrative technologies



Bio-convergence technologies

Bio-Engineered Nanorobotics



Engineered delivery vehicle based on either living systems or devices to target drugs to specific sites



Prof. Marcelle Machluf (Technion)

Therapeutics Discovery



Highly scalable biological model platforms to facilitate drug screening



Prof Yaakov Nahmias (HUJI) Prof Doron Gerber (BIU)

Therapeutics Genetics Engineering



Re-engineered living cells and biological circuits for diagnostics and therapeutics



Prof Ido Amit (WIS)
Dr. Eyal Hendel (BIU)

3D printing & Cyborg Tissues Engineering



Platform technology that enables bio-fabrication and tissue engineering of transplantable organs and tissues



Prof Ronit Satchi-Fainaro (TAU) Prof Tal Dvir (TAU)

Bio-convergence technologies

Optogenetics Therapeutics



Genetic modifications and light stimuli to precisely manipulate cells' behavior by turning activity of certain genes in specific cells



Dr. Ofer Yizhar (WIS)
Dr. Yoav Adam (HUJI)

Bioelectronics Medicine



Miniaturized, implantable closed-loop systems that detect and deliver precision neuromodulation of specific nerve fibers in order to treat a wide variety of disorders



Prof. Yael Yaniv (Technion)

Engineered Living & Smart Materials



Engineered materials composed of living cells that form or assemble the material itself that have the characteristics of biological systems



Dr. Peter Nguyen (Wyss Institute) Prof. George Church (Wyss Institute)

Bio-convergence in beginning globally

Biology-Engineering Institutes



- Biologically Inspired Engineering at Harvard University
- New model for innovation, collaboration and technology translation
- 22 new startup companies

Big pharma turns to Tech





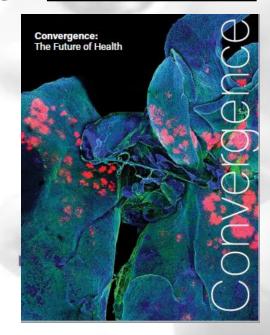
R&D Center for Implantable Bioelectric Medicines





Changing Government Policy

Key recommendation by MIT white paper - increase NIH Convergence research budget from 3% to 20%



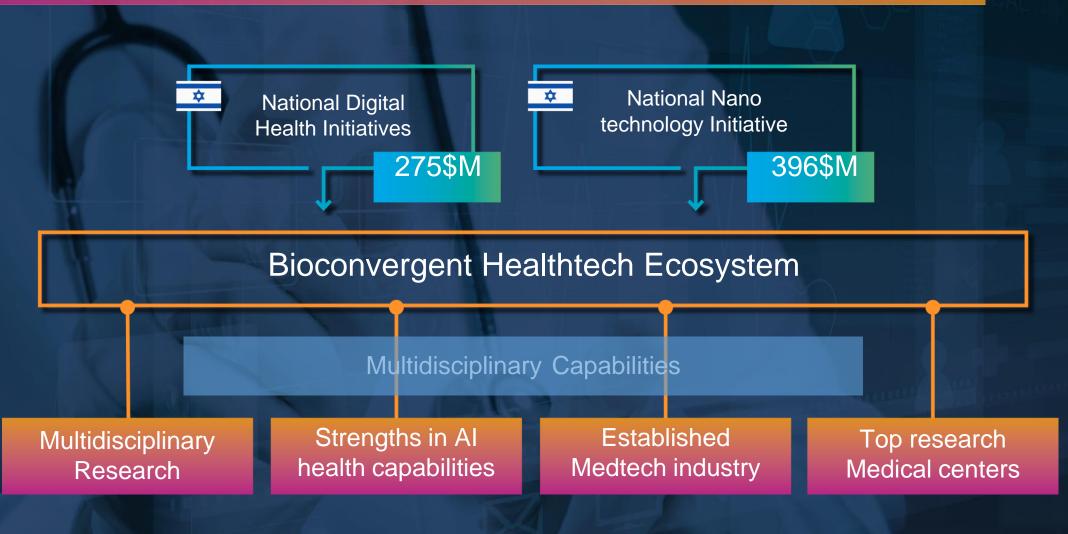
Convergence is the Base of Greatest Israeli Inventions



Toward Medicine 2040:
The opportunity for Israel in therapeutics is enormous



Bio-convergence - Israel's Next Economic Growth Engine





National Funding Tools – Encouraging Bio-Convergence Across all Stages



Multidisciplinary
Research &
Dedicated Grants
& Training



Israel National
Translational
Initiative



Innovation Labs,
Incubators,
Seed funding



Israel Early and Growth Fund



Targeted Challenges Program



Attract R&D International Collaborations

IIA's Support Channels From Applied Research to Growth