



Carrere Development in Science Weizmann Institute

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June 2015

My Talk Today

התכנית הלאומית להשבת אקדמאים
 **חוזרים**
 לתעשייה ולאקדמיה בישראל 

**The Israel National
Brain Gain Program**



OCS-Office of the
Chief Scientist
MINISTRY OF ECONOMY

**The Office of The Chief
Scientist (OCS)**

**Opportunities &
Programs**

Israel National Brain Gain Program

A designated program for handling the Israeli Brain Drain phenomena

- The program was launched in June 2013 based on Government resolution 1503
- Pooling resources of the Ministries of Economy, Finance, Immigration & Absorption and the Planning and Budgeting Committee of the Council of High Education
- The program is run under the Chief Scientist of the Ministry Economy



Israel National Brain Gain Program

▶ Main directions of activity:

**Assistance in
finding
employment and
in the return
process**

**Research and
policy
formulation**

**Designated
programs**

Assistance in
finding
employment and
in the return
process

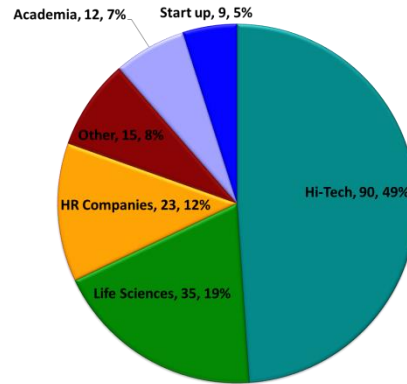
What Do We Offer?

- ▶ Direct personal communication with representatives of the program
- ▶ **Assistance in finding a job**
- ▶ Information supplement and problems solutions for the entire family in the return process
- ▶ **Flight grants for attending job interviews**
- ▶ Social Security Direct route – providing information while still abroad and receipt of approvals by email following landing
- ▶ Informative interactive Website
- ▶ **Training workshops**
 - ▶ Career Development
 - ▶ Entire family Absorption
- ▶ Memorandum of tax benefits and facilitations
- ▶ Return process diagram including links to all the websites and forms
- ▶ Listening and adapt ideas and needs

Over 180 partnering employers in the program (5.2015)



מעסיקים שותפים בתכנית לפי תחומי פעילות



התכנית הלאומית
להשבת אקדמאים



חוזרים
לתעשייה ולאקדמיה בישראל

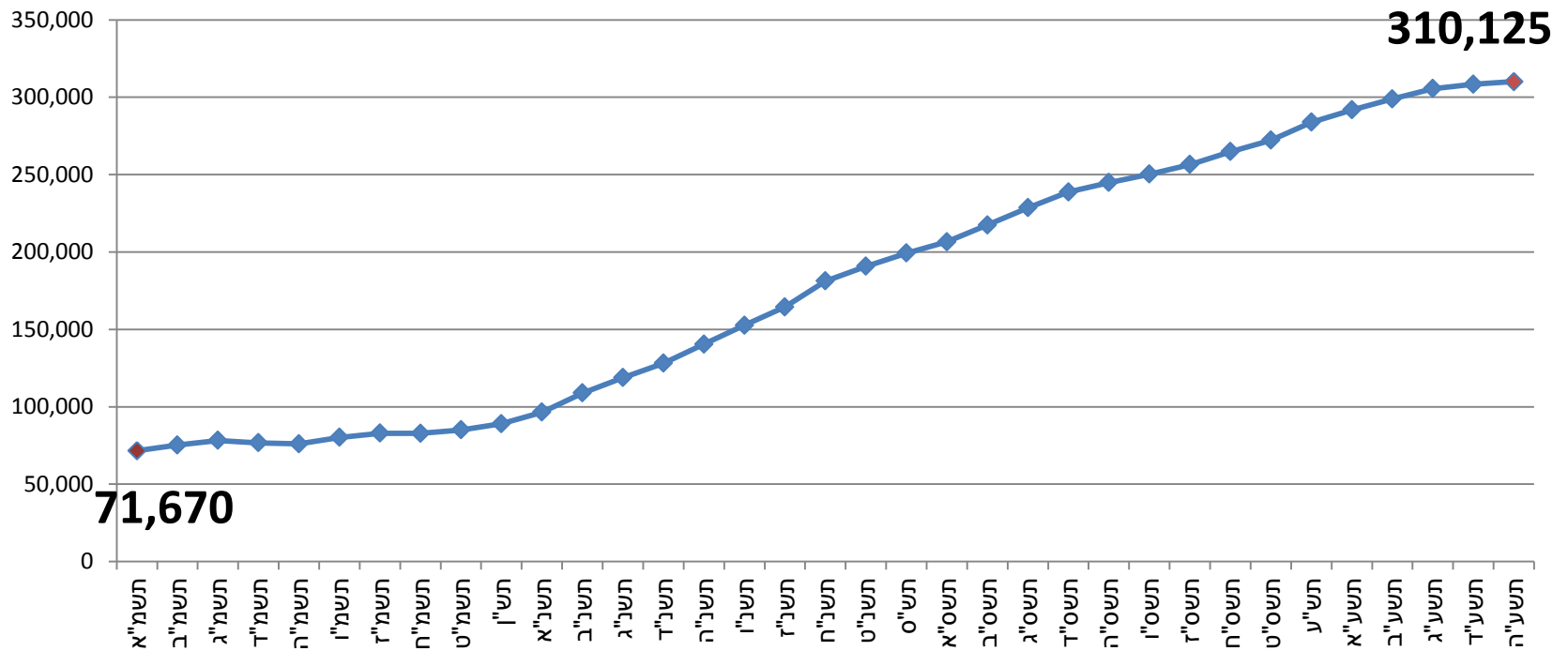


**Research and
policy
formulation**



Number of Students

From 7 universities to 65 Academic Institutions

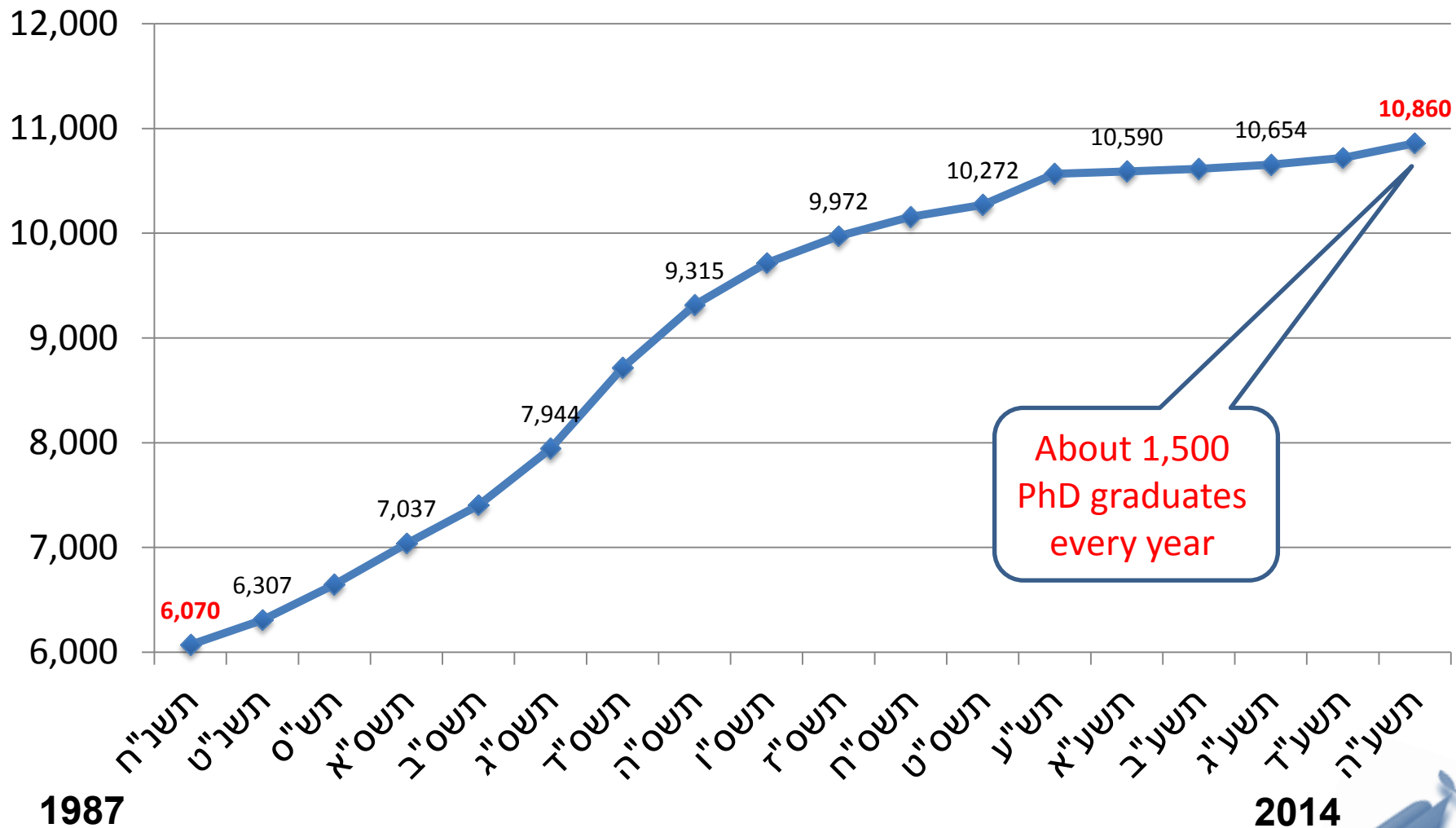


1980

2015

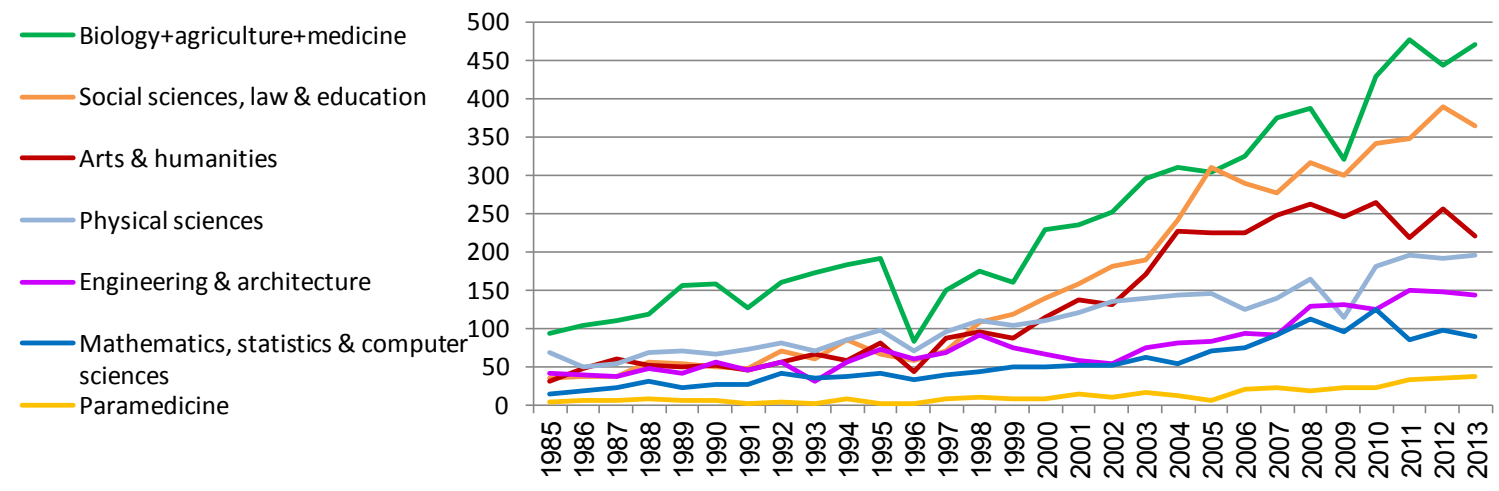


PhD Students

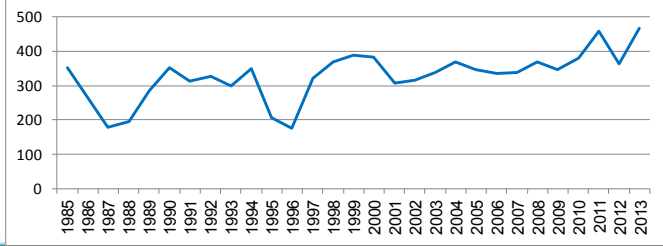


Total PhD and MD Graduates Amongst Israel's Academic Institutions

PhD Graduates Between 1985-2013
Total 23,104



MD Training Between 1985-2013
Total - 9,495



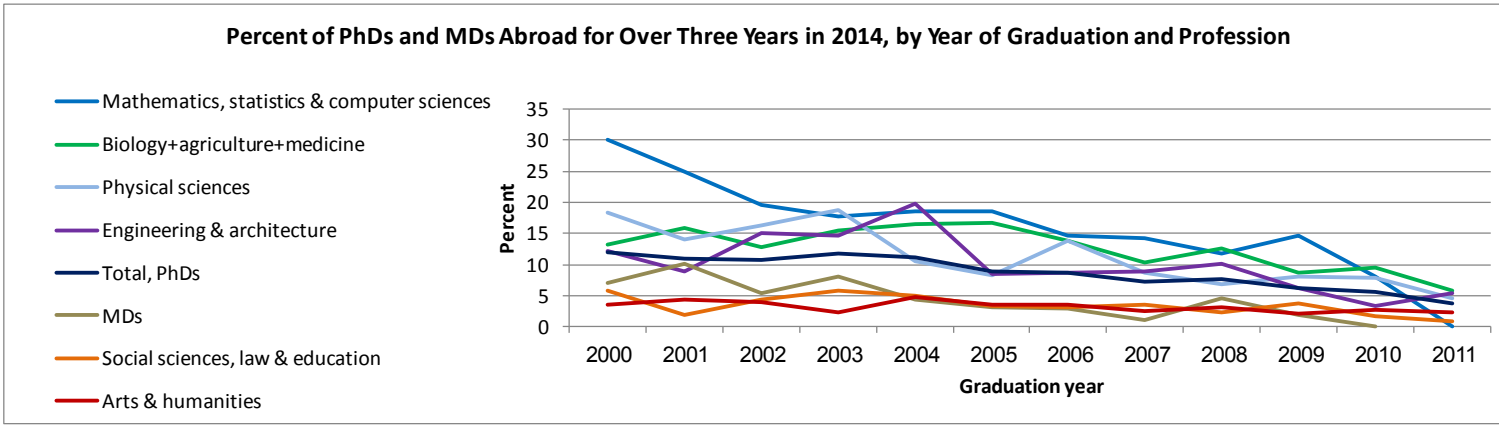
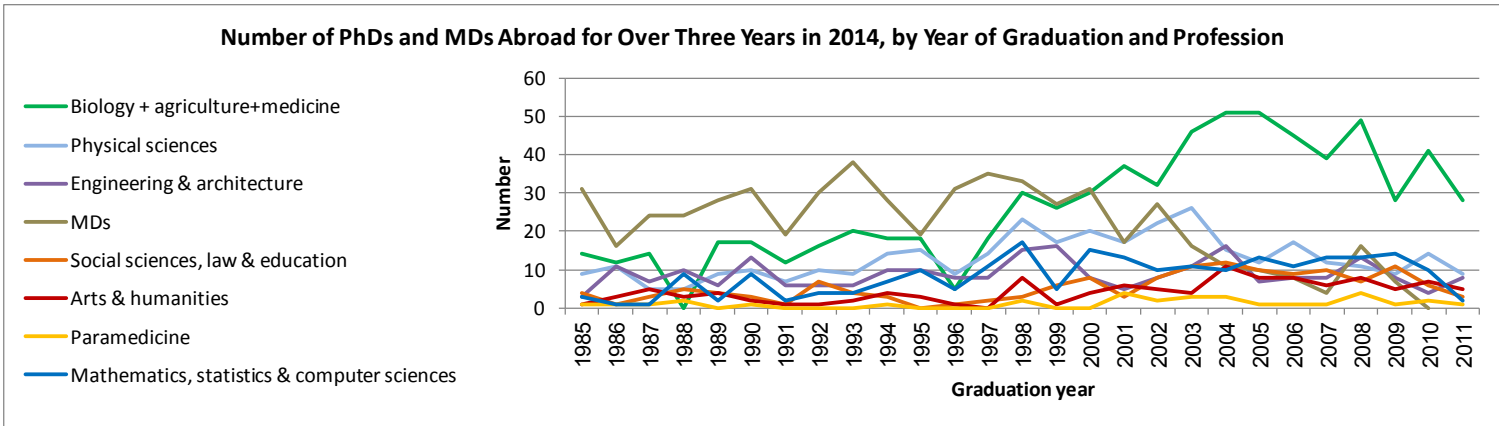
Preliminary report conducted by the CBS for the Israel National Brain Gain Program, March 2015



Percent of Advanced Degree Graduates Amongst 1985-2013 Graduates

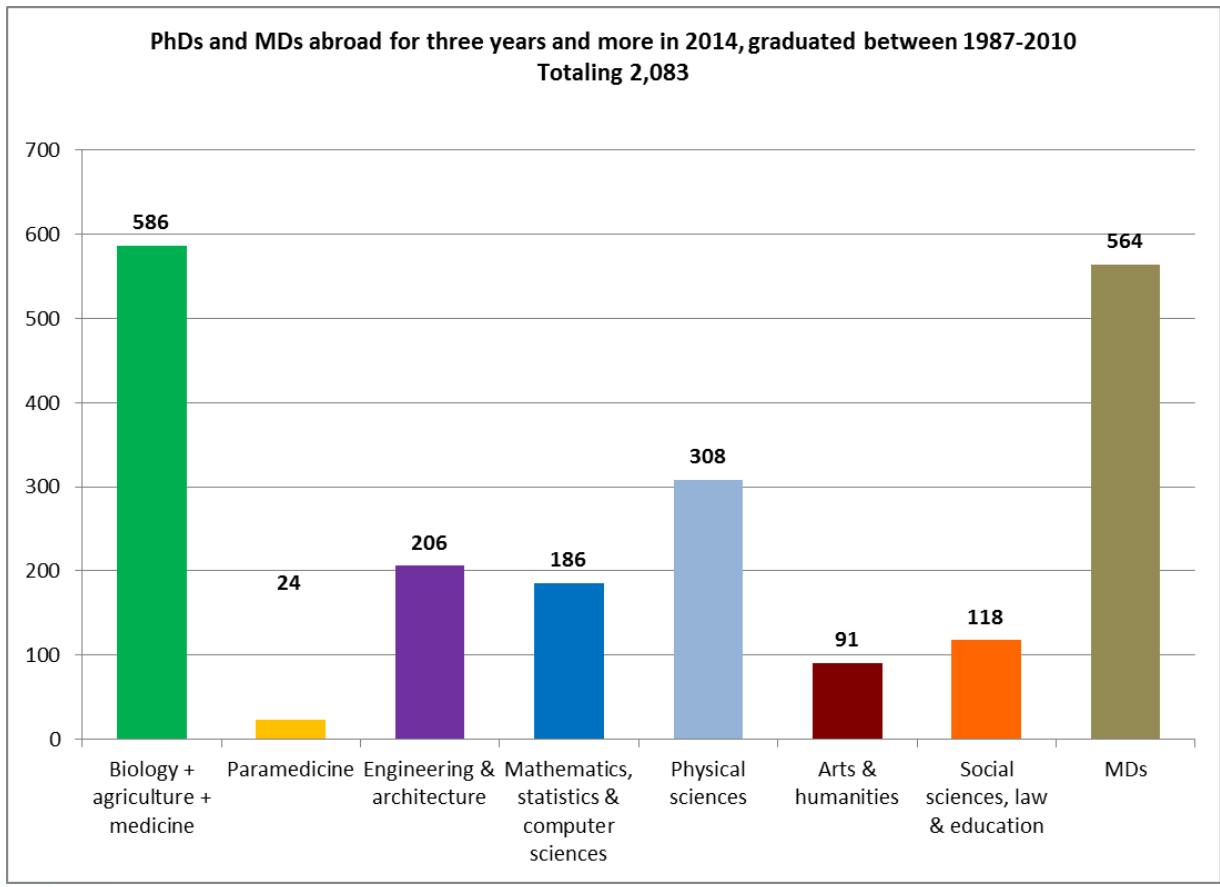
	Second Degree	PhD	Proportion Amongst Total PhDs
Total	26.2%	3.1%	
Biology + Agriculture + Medicine	30.2%	21.0%	30.34%
Paramedical	22.8%	1.2%	1.49%
Engineering + Architecture	15.9%	2.7%	9.69%
Mathematics, Statistics, and Computer Sciences	14.3%	4.2%	6.85%
Physics	27.0%	23.1%	14.10%
Humanities	23.4%	4.2%	16.69%
Social Sciences, Law and Education	30.2%	1.1%	20.84%

PhDs and MDs Abroad for Three Years or more, as of 2014, by Year of Graduation and Profession



Preliminary report conducted by the CBS for the Israel National Brain Gain Program , March 2015

PhDs and MDs Abroad for Three Years and more in 2014 and more in 2014

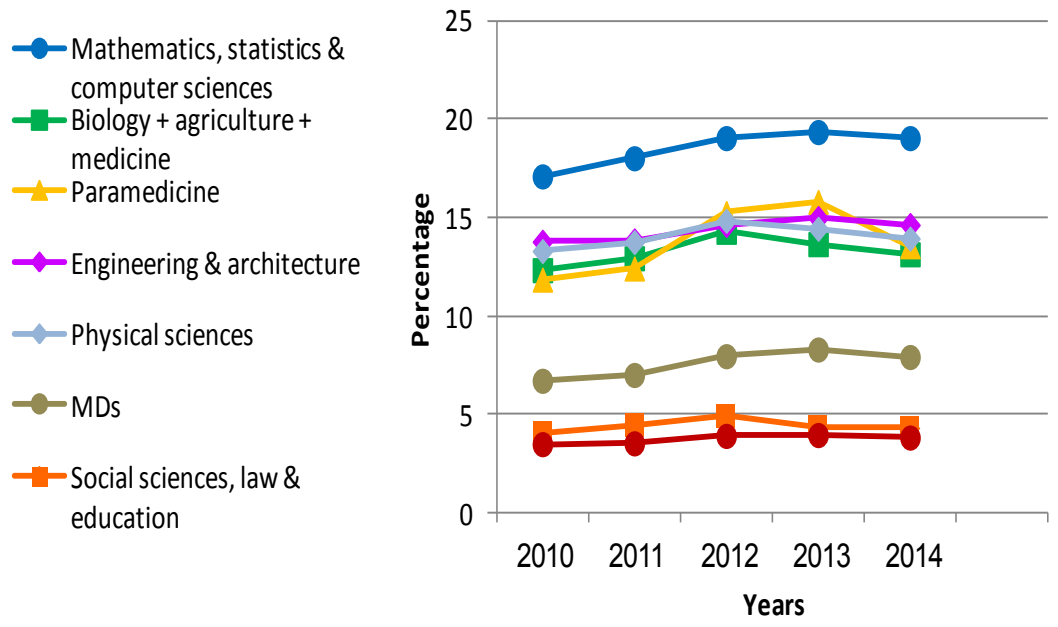


Did Not Find Work (Wish to find work, returned and not returning without a job)

	First Degree	Second Degree	PhD	MD	Total
Humanities & Arts	1	4	4	0	9
Social Sciences	15	43	3	0	61
Exact Sciences & Engineering	40	24	27	0	91
Life Sciences	4	5	30	0	39
Medicine and Paramedicine	13	1	2	6	22
Total	73	77	66	6	222

PhDs and MDs Abroad for Three Years and More, Segmented by Professions, Graduated Between 1985-2007

Percentage of PhDs and MDs staying abroad for three years and more, graduated between 1985-2007



	PhD
Humanities & Arts	
Social Sciences	
Exact Sciences & Engineering	180
Life Sciences	200
Medicine and Paramedicine	

Preliminary report conducted by the CBS for the Israel National Brain Gain Program, March 2015





- WHAT YOU CAN DO?

- WHAT THE GOVERNMENT DOES?

Be Professional

Create Relative advantage

- ▶ PhD is not a profession!!
- ▶ Homework – learn the market, the options & opportunities!!
- ▶ If you would like to be in the Academy system
 - ▶ Do a Post doctorate in the best place you can
 - ▶ Understand the options in the Israeli academia (before you start your post doctorate)



Be Professional

Create Relative advantage

- ▶ If you would like to integrate into the Industry
 - ▶ Take relevant courses
 - ▶ Go to the Industry conferences
 - ▶ Cooperate with the Industry
 - ▶ Few years in the industry between M.Sc. to PhD will give you direction and advantage
 - ▶ Don't do long post doctorate in the Academy!!!
 - ▶ Find fellowships program in the industry abroad
 - ▶ Speak with friends and colleagues



It is a Global Phenomena

**Rescuing US biomedical research from its systemic flaws
(Bruce A. et al, PNAS, 2014**

- ▶ Reducing trainings
- ▶ Control number of trainings
- ▶ Staff Scientists track
- ▶ Training adjustment – academic track for the industry
- ▶ Advanced training tracks in industry



Training Grants In The Industry

- ▶ Life sciences –
 - ▶ Training in the global pharma industry and the Israeli biotech as an alternative to a post-doctorate
 - ▶ Solution to the shortage of skilled, experienced manpower in the Israeli biotech industry
 - ▶ Will open more employment channels to returnees
- ▶ Physical sciences –
 - ▶ Training in the Israeli hi-tech industry as an alternative to a post-doctorate
 - ▶ Will open more employment channels to returnees
- ▶ Adaptation of academia contents to the labour market (designated tracks)

Win Win



OSC – Office of the Chief Scientist Ministry of Economy

Execution of government policy supporting industrial R&D

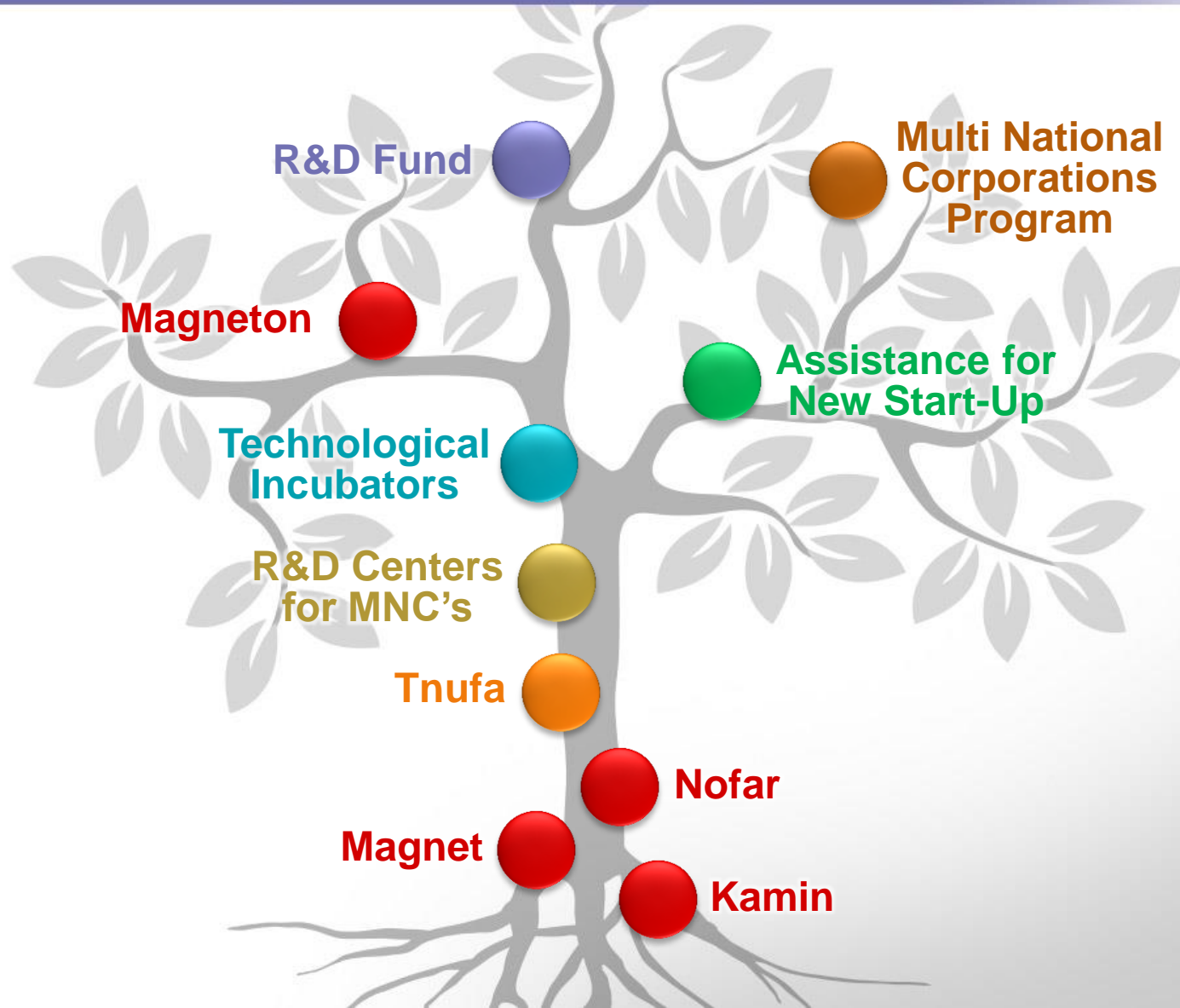
Goal is not to make money but strengthen the industry

Enable but don't lead the market – “do no harm”

37 different programs to promote innovative R&D



The OCS Main Programs:



OCS Designated Programs to Biotechnology

Life Science Fund (biopharma and medical devices):

- Total Investment \$220M, operated by Orbimed Partners Israel

Biotechnology Incubator

- Partners: Orbimed, Takeda, J&J
- \$2.025M, 85% OSC: 15% Incubator

Extended support (time & \$) to biotechnology projects in other incubators and programs.





תודה

www.israel-braingain.org.il