



Israeli Centers of Research Excellence



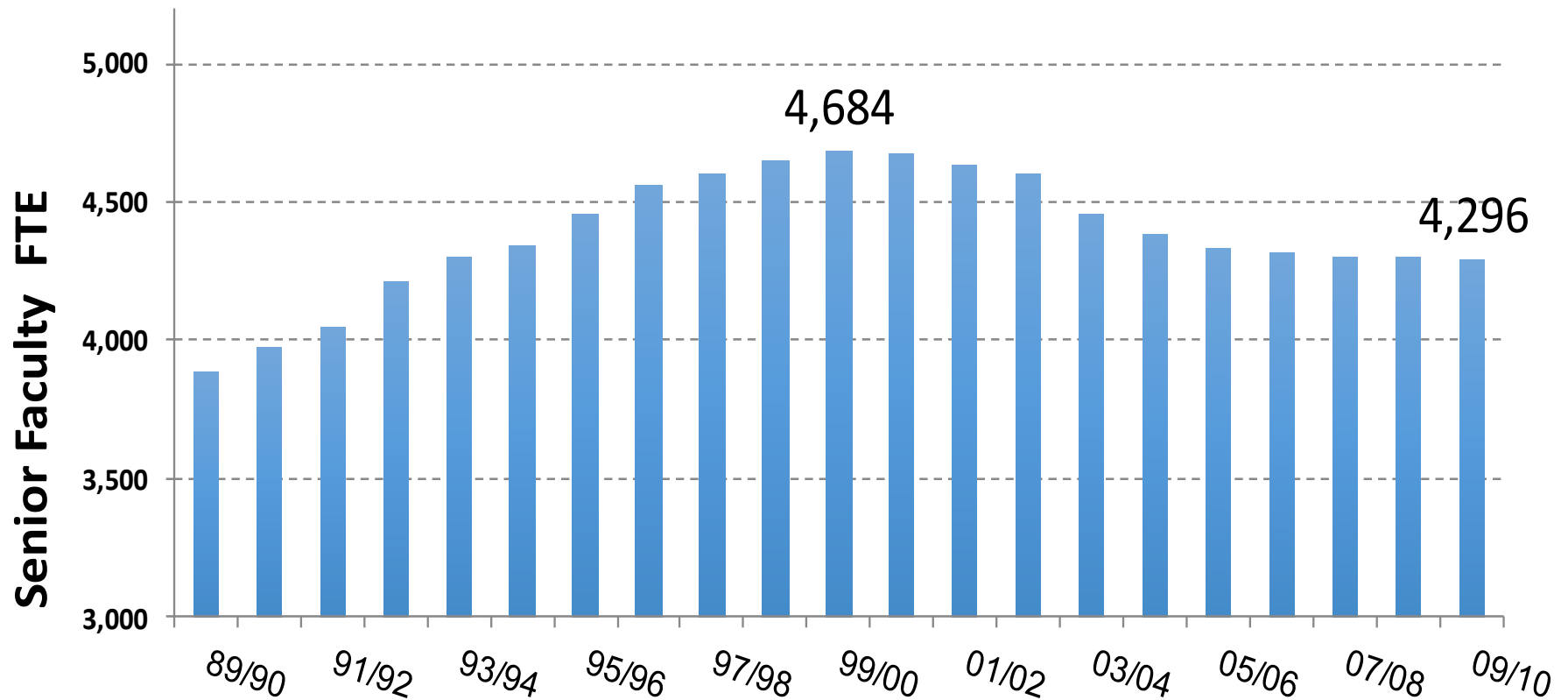
The I-CORE Program

Noa Tal, PBC/CHE

Quantum Universe I-CORE Meeting
Tel Aviv, December 18th, 2013



Shrinkage in the number of Senior Faculty in the universities: 2009/10



Israeli Higher Education: From Accelerated Growth to Renewed Excellence

Up to mid 1990's:
**Excellence
for the Few**

- **Elitist system:**
 - Low % of students
 - Universities only
- Adequate budgeting
- Impressive accomplishments



Israeli Higher Education: From Accelerated Growth to Renewed Excellence

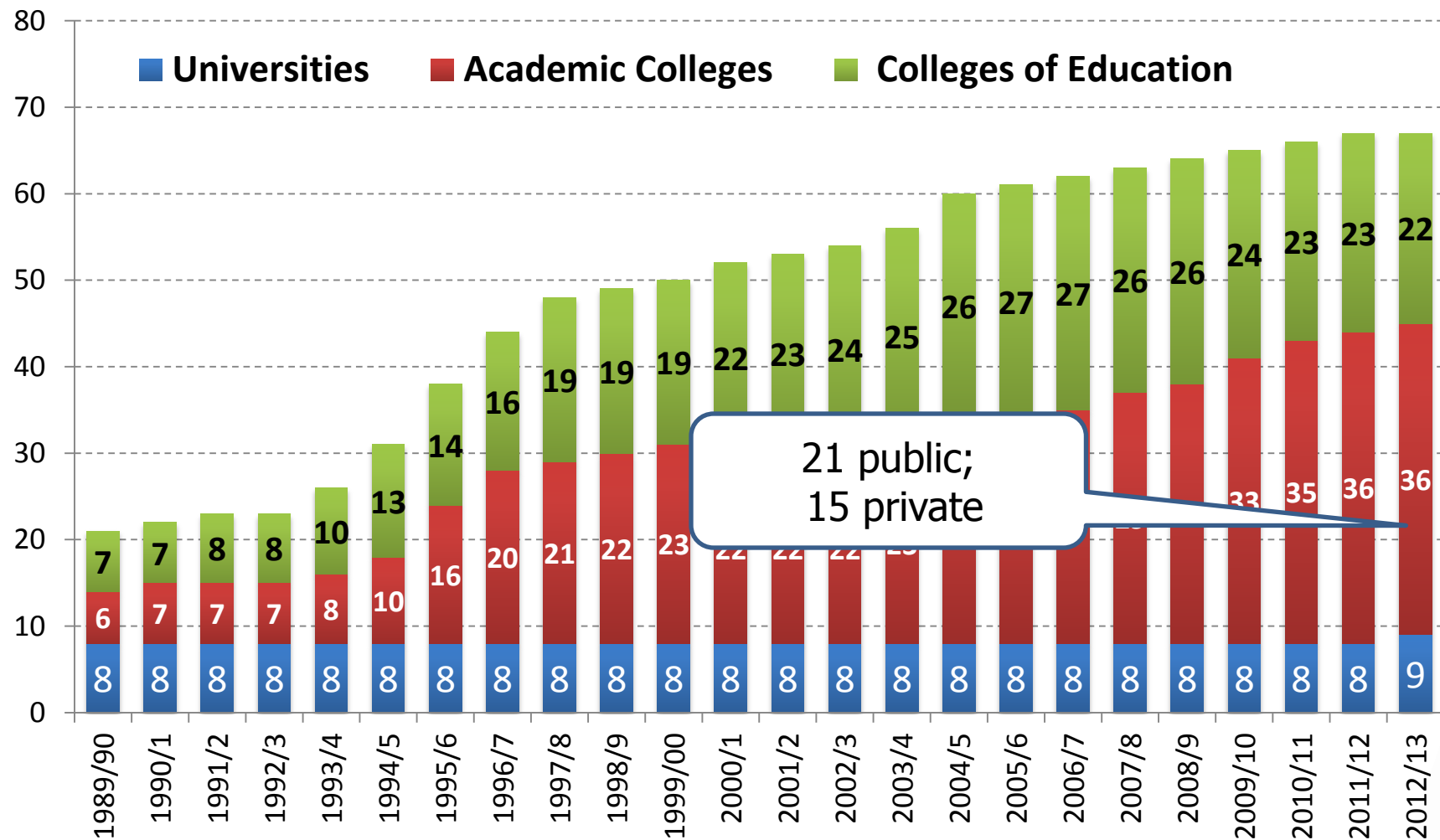
***Up to mid 1990's:
Excellence
for the Few***

***2000-2009:
"The Lost
Decade"***

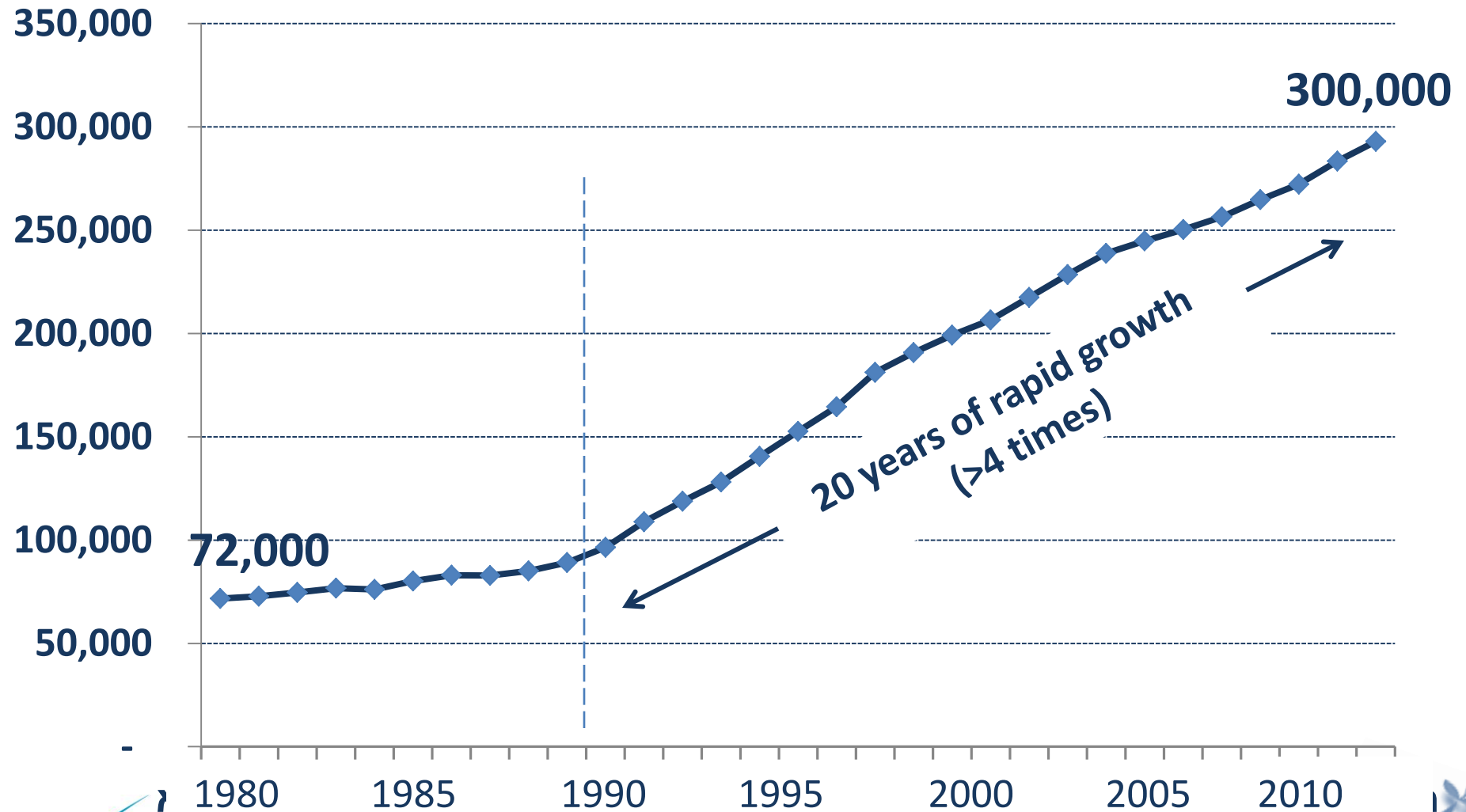
- **Elitist system:**
 - Low % of students
 - Universities only
 - Adequate budgeting
 - Impressive accomplishments
- **Rapid Growth:**
 - Number of Students
 - Number & diversity of Institutions



Massive Growth in Number of Colleges



Accelerated growth in number of students



Israeli Higher Education: From Accelerated Growth to Renewed Excellence

***Up to mid 1990's:
Excellence
for the Few***

***2000-2009:
"The Lost
Decade"***

- **Elitist system:**
 - Low % of students
 - Universities only
 - Adequate budgeting
 - Impressive accomplishments
- **Rapid Growth:**
 - Number of Students
 - Number & diversity of Institutions
 - **Budget Cuts:**
 - Shrinking, aging faculty
 - Brain Drain
 - Deterioration of infrastructures



Israeli Higher Education: From Accelerated Growth to Renewed Excellence



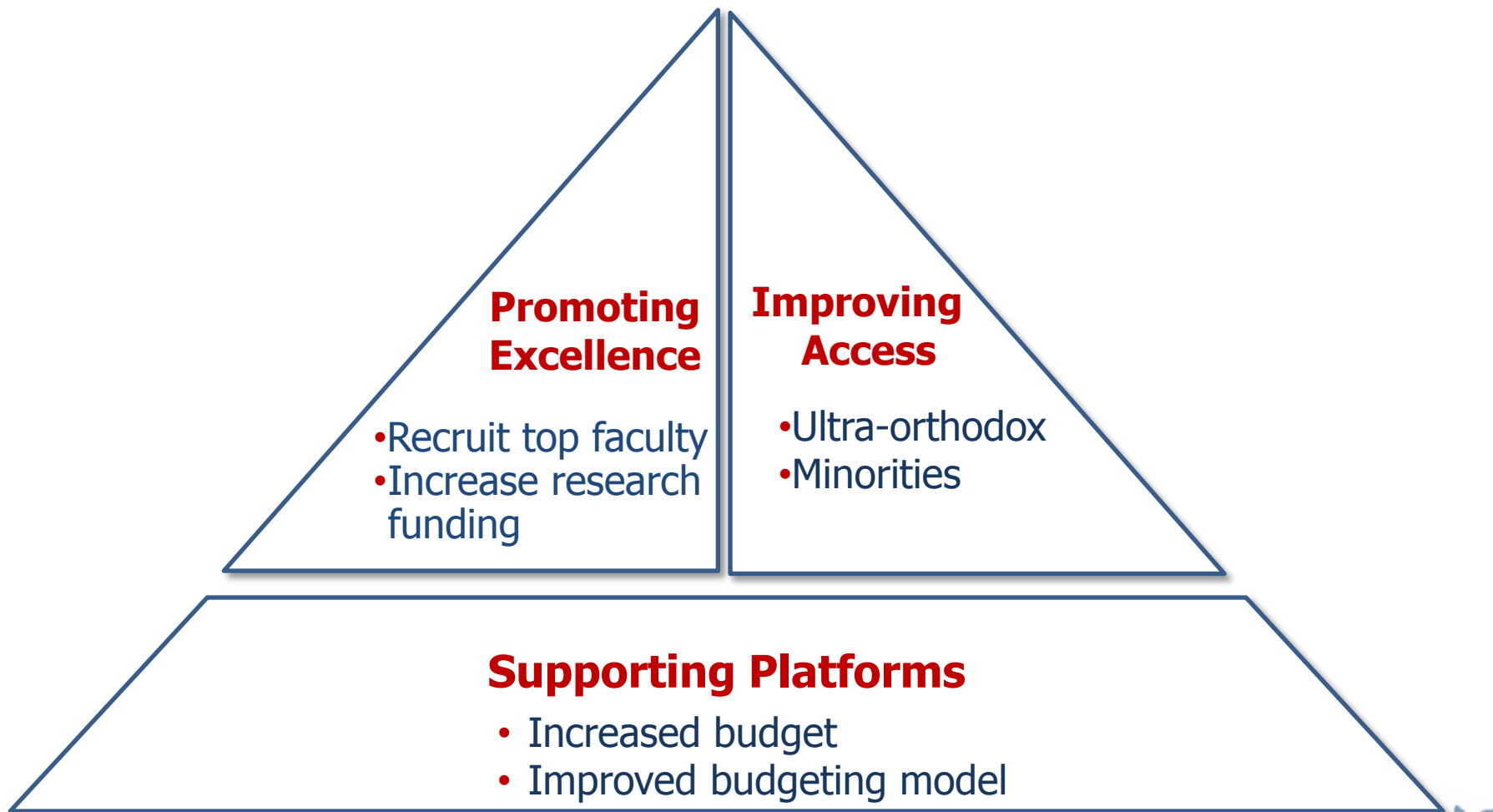
- **Elitist system:**
 - Low % of students
 - Universities only
- Adequate budgeting
- Impressive accomplishments

- **Rapid Growth:**
 - Number of Students
 - Number & diversity of Institutions
- **Budget Cuts:**
 - Shrinking, aging faculty
 - Brain Drain
 - Deterioration of infrastructures

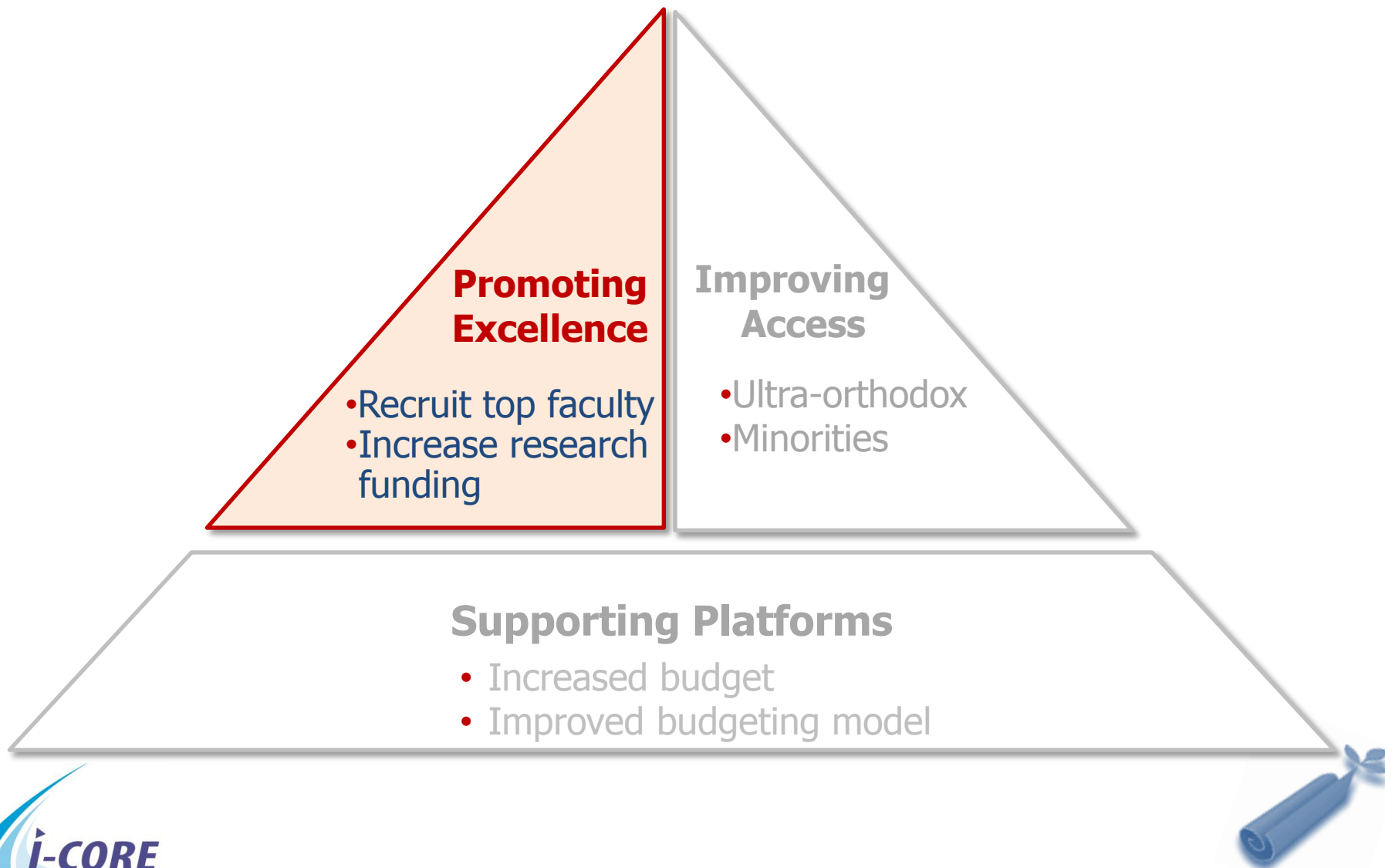
- **Multi-year plan & budget increase**
- **I-CORE Program**



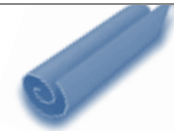
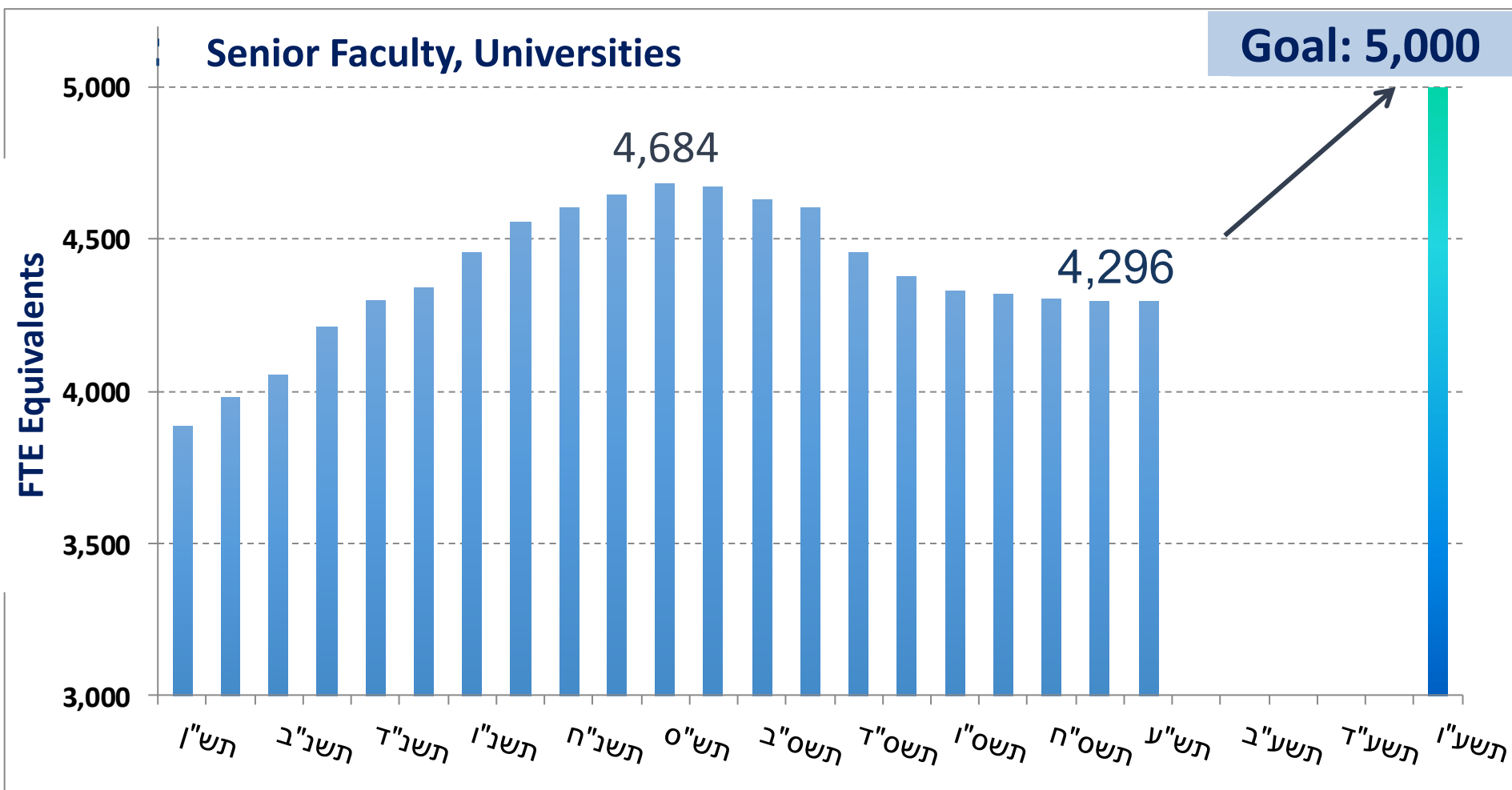
The Multi-Year Reform Plan in Higher Education: Main Pillars



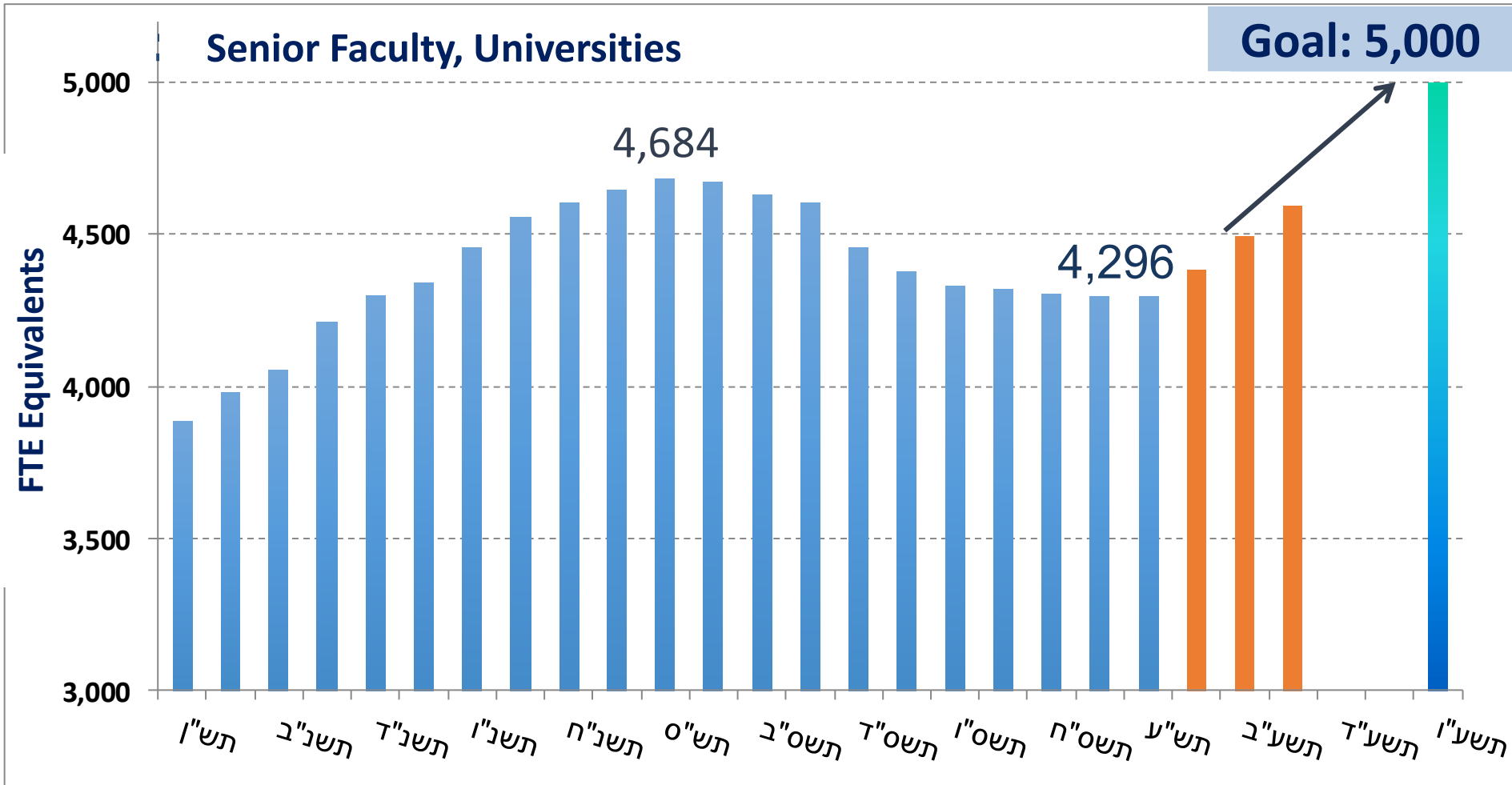
The Multi-Year Reform Plan in Higher Education: Main Pillars



Main Goal: Recruitment of New Faculty



Recruiting Senior Faculty – So Far



In 3 years:

Universities +300 Net; +650 Gross

Colleges +380 Net; +430 Gross





Israeli Centers of Research Excellence



The Flagship of the Multi-Year Reform Plan – Goals:

- **Reinforcing scientific research in Israel**, world leadership
- Assisting excellent researchers to **return to Israel**
- Encouraging **research collaboration** among institutions
- Creating **critical mass** and leveraging **relative advantages**
- Encouraging **academic innovation** and **inter-disciplinary** research



Leading Organs



Members of the Scientific Advisory Committee

Bruce Alberts



Biology

**Aaron
Ciechanover**



Medicine

**David K.
Cohen**



Education &
Public policy

**Linda
Gregerson**



English
Language and
Literature

David J. Gross



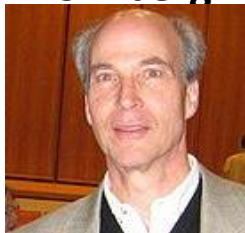
Theoretical
Physics

Steven Katz



Judaic studies

**Roger
Kornberg**



Biology

**David M.
Kreps**



Business &
Economics

Eric S. Lander



Biology

**Moshe Y.
Vardi**



Computer
Science

Ada E. Yonath



Bio-molecular
structure

**Dan
Shechtman**



Materials
Science

Members of the Steering Committee

**Shimon
Yankielowicz**
SC Chairman



Physics

**Manuel
Trajtenberg**
PBC Chairman



Economics

**Benjamin
Geiger**
ISF Chairman



Cell Biology

**Aharon Beth-
Ha'Lachmi**



Past PBC
member

**Shmuel
Feiner**



Philosophy

**Alfred
Bruckstein**



Computer
Sciences

Ronnie Kosloff



Chemistry

Zohar Laslo



Industrial
Engineering and
Management

**Rachel Levy-
Schiff**



Psychology

**Sophia
Menacahe**



General
History

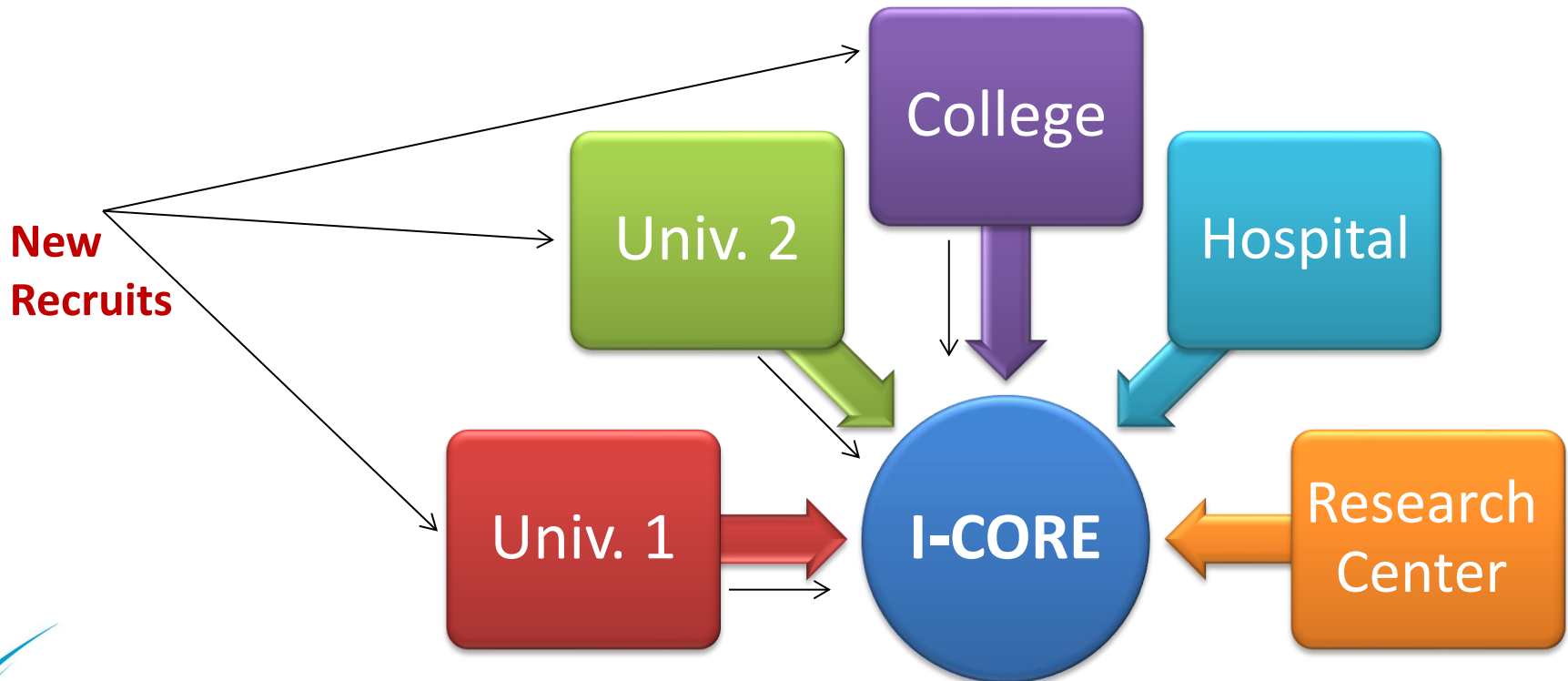
Aviad Raz



Sociology and
Anthropology

What is an I-CORE ?





"An Association of excellent researchers in a defined scientific field, for the purpose of advancing and deepening innovative, breakthrough research within this field"



Total: ~15-25 Leading Researchers

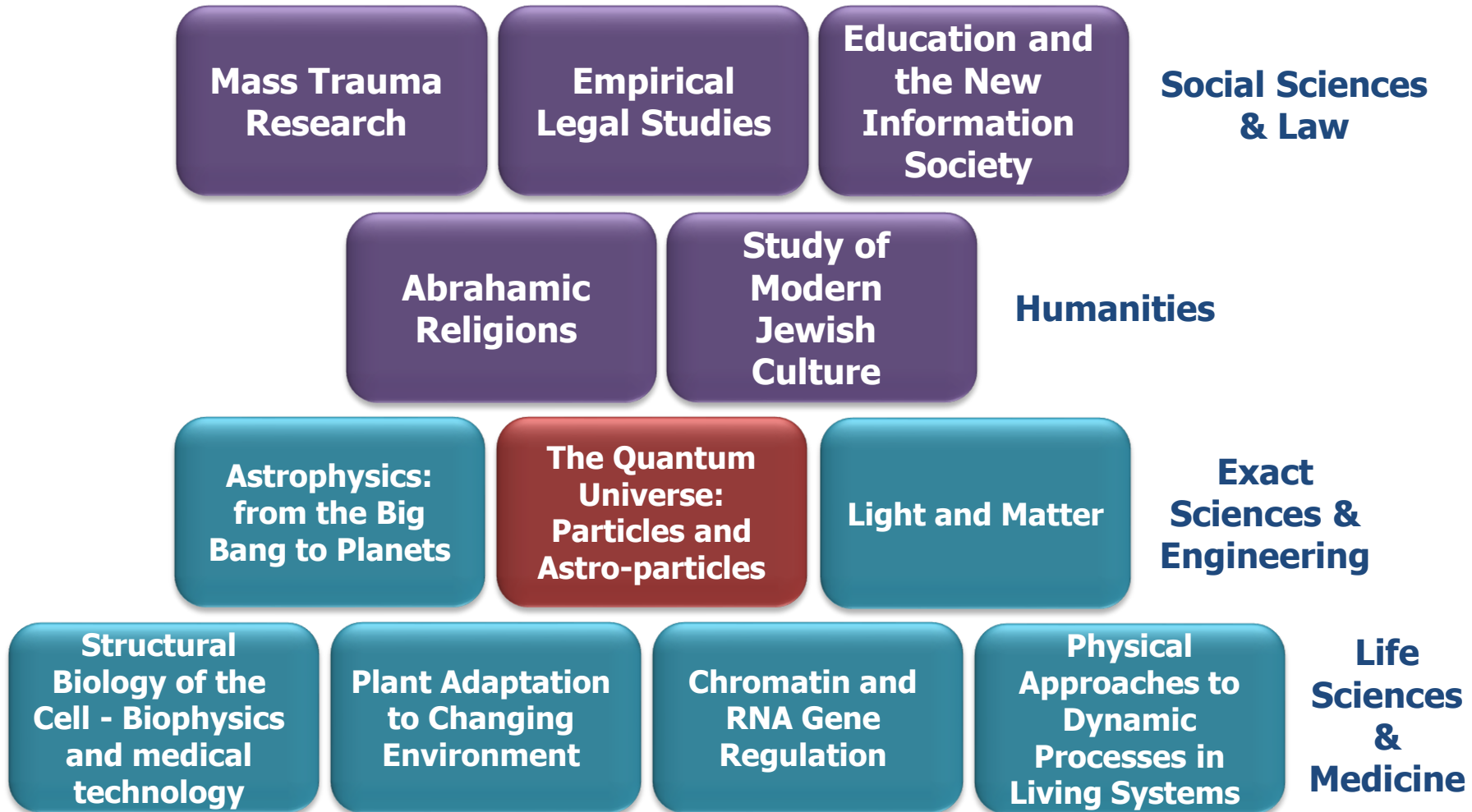
Phase I: The First Four I-COREs

Established October 2011

I-CORE	Scientific Director	Affiliations
 Life Sciences: Gene Regulation in Complex Human Disease	Prof. Howard Cedar , Hebrew University	<ul style="list-style-type: none">•The Hebrew University•Tel Aviv University•Bar-Ilan University•Sheba Medical Ctr.•Hadassah Medical Ctr.
 Energy: Israeli Solar Fuel Consortium	Prof. Gideon Grader , Technion	<ul style="list-style-type: none">•The Technion,•Weizmann•Ben Gurion University
 Brain Research: Cognition – Study of the Reconstructive Mind	Prof. Yadin Dudai , Weizmann	<ul style="list-style-type: none">•Weizmann•Bar-Ilan University•Tel Aviv University•Emek Izrael College•Sourasky Medical Ctr.
 Computer Science: Algorithms	Prof. Yishay Mansour , Tel Aviv University	<ul style="list-style-type: none">•Tel Aviv University•Weizmann•Hebrew University

The second wave: 12 new I-CORE's

Established May 2013



The I-CORE's Main Activities

New Recruits

- Annual research grants for 5 years (150-400K NIS / year)
- Personal equipment / lab: (20K – 2M NIS)
- Salaries for 5 years
- TOSEFET BET for 5 years

Major shared Research Infrastructures

Ongoing Activities



The I-CORE's Main Activities

New Recruits

Major shared Research Infrastructures

- Serving all I-CORE members

Ongoing Activities



The I-CORE's Main Activities

New Recruits

Major shared Research Infrastructures

Ongoing Activities

- **Activities of Senior researchers:** scholarships to PhD's and postdocs, personal equipment, technical HR, ...
- **International collaborations:** conferences, workshops, visits, ...
- **Other:** I-CORE meetings, ...



What can I-CORE promote beyond research?

examples from the first 4 I-COREs

- **International collaboration** leveraging global branding
 - Postdoc program with Italy
 - Joint program: algorithm I-CORE & Simons institute at Berkeley
- Acquiring advanced **equipment & infrastructures**
- Resources for **postdocs**
- New inter-institutional **collaborations in Israel** (incl. PhD students, postdocs)
- Financing **experimental projects** with breakthrough potential

What else?

- International Joint Graduate Programs
- Collaborations with industry
- Community outreach

Large flexibility for your ideas...

Evaluation & Monitoring

- Annual budget report
- Scientific report every 2 years
- Updates on the Quantum Universe website & I-CORE website

Updates on the I-CORE website

<http://www.i-core.org.il/>



Israeli Centers Of Research Excellence



About |

The I-CORES |

Partners

News

Press Room |

Contact



Search



News



Files & Documents

Events

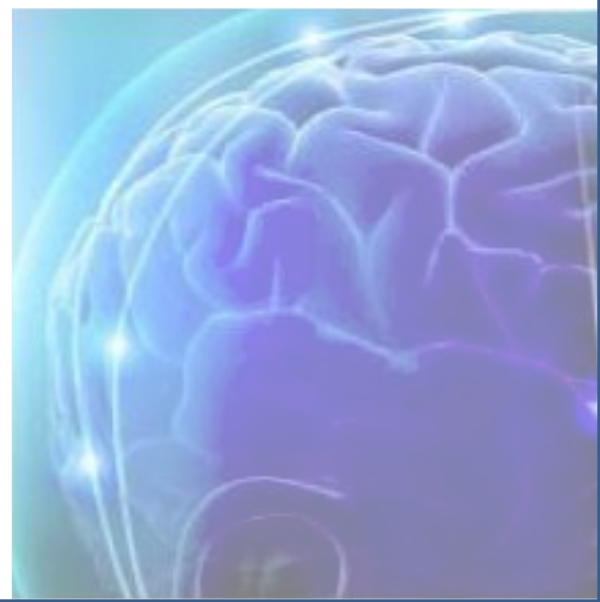
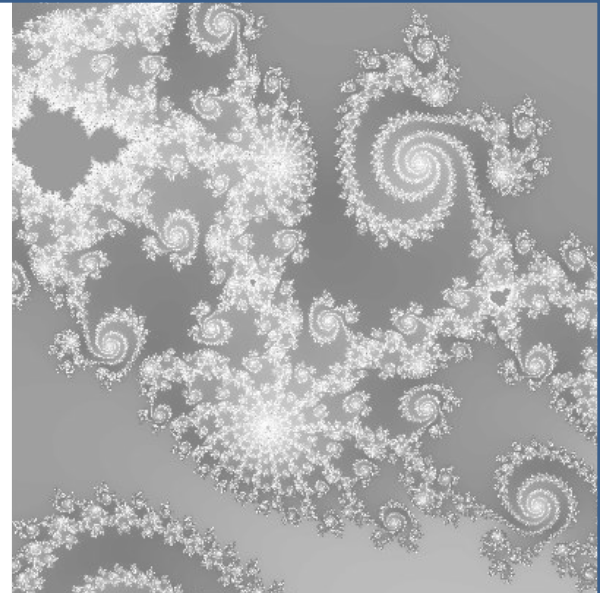
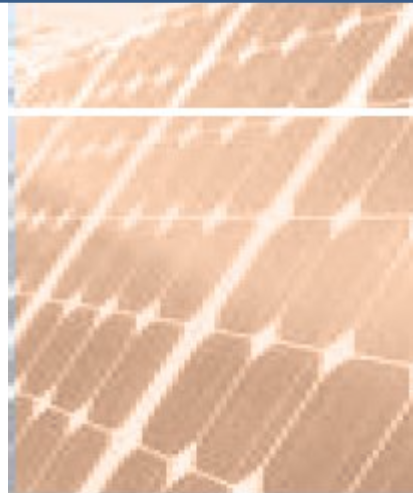
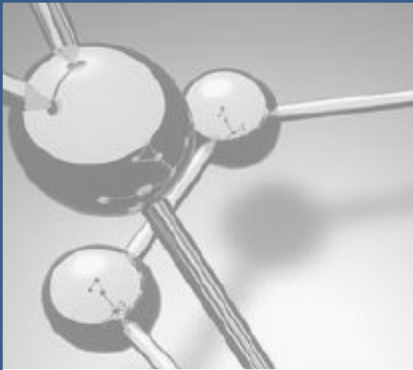
Useful Information

Useful Information

Useful websites:

Useful websites for Researchers:

- [Ministry of Immigrant Absorption – Scientists and researchers](#)



Good Luck!